

**BIOGEOCHEMISTRY PROJECT UPDATE:
SNOW CORES 1989-1993
PLASTIC LAKE & HARP LAKE**

APRIL 1993



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**BIOGEOCHEMISTRY PROJECT UPDATE:
SNOW CORES 1989-1992 –
PLASTIC LAKE & HARP LAKE**

Report prepared by:

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Water Resources Branch
Ontario Ministry of Environment and Energy**

PREFACE

The Unpublished Data Report series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka-Haliburton area of Ontario. These data were collected as part of the Acid Precipitation in Ontario study.

The Acid Precipitation in Ontario Study (1979 - present) was initiated, in part, to investigate the effects of the deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

ABSTRACT

Snow was collected and analyzed as part of the Biogeochemistry program to determine chemical and hydrological inputs to groundwater flow in two Dorset area watersheds. Graphs of chemistry, snow depth and water equivalence data for the winters of 1989/90, 1990/91 and 1991/92 are included, as is meteorological data for the same time period. Complete data summaries are also included for data collected from January 1988 to April 1992.

TABLE OF CONTENTS

| | Page |
|--|----------|
| I METHODS | 1 |
| Snow Sampling | 1 |
| Meteorological Data | 2 |
| Summary Data Tables | 2 |
| Chemistry Graphs | 3 |
| Snow Deposition and Weather Graphs | 3 |
| II REFERENCES | 3 |
| III LIST OF FIGURES | |
| Chemistry Results - Plastic Lake | |
| 1. 1989-1990 | 4 |
| 2. 1990-1991 | 7 |
| 3. 1991-1992 | 10 |
| Chemistry Results - Harp Lake | |
| 4. 1989-1990 | 13 |
| 5. 1990-1991 | 16 |
| 6. 1991-1992 | 19 |
| Temperature, Precipitation, Snow Depth and Water | |
| Equivalence - Plastic Lake | |
| 7. 1989-1990 | 22 |
| 8. 1990-1991 | 23 |
| 9. 1991-1992 | 24 |

Harp Lake

| | | |
|-----|-----------|----|
| 10. | 1989-1990 | 25 |
| 11. | 1990-1991 | 26 |
| 12. | 1991-1992 | 27 |

IV LIST OF TABLES

Complete Data Summaries - Plastic Lake

| | | |
|----|--------|----|
| 1. | PCST11 | 28 |
| 2. | PCST14 | 30 |
| 3. | PCST16 | 32 |
| 4. | PCSZ04 | 34 |
| 5. | PCSZ05 | 36 |
| 6. | PCSZ07 | 38 |

Harp Lake

| | | |
|-----|--------|----|
| 7. | HPST13 | 40 |
| 8. | HPST14 | 42 |
| 9. | HPST16 | 44 |
| 10. | HPSZ04 | 46 |
| 11. | HPSZ06 | 48 |
| 12. | HPSZ07 | 50 |

METHODS

Snow sampling

Methods used for collection of data in this report remain unchanged from those used in a 1989 data report (Ont. Min. Envir., 1989). Snow was collected from the same six sites in both the Harp 5 and Plastic 1-08 watersheds. The Hawkeye Lake study was discontinued in 1989 and no further samples were collected from this watershed.

Snow was collected for chemical analysis on a weekly basis during the season for as long as there was a sufficient amount of snow on the ground to provide an uncontaminated sample. Debris falling from trees throughout the winter eventually resulted in contaminated samples as the debris accumulated and the snow pack decreased. Sampling for snow depth and water equivalence of the snow continued until there was no snow left on the ground. This varied from site to site, depending on the aspect of the slopes and the amount of shading from the overstory.

All sites were sampled for density and water equivalence on a weekly basis. This was usually done at the same time as chemistry sampling, but the sampling schedule was often increased during periods of rapid change at the sites (see data summaries for exact sampling dates). A visual estimate of percent snow cover was made at each site during each visit.

Meteorological Data

Daily precipitation and temperature data was collected at meteorological stations located adjacent to the collection sites at Harp and Plastic Lakes. A description of the site locations and equipment used can be found in the 1989 snow core data report (Ont. Min. Envir., 1989). Where data was not available from these sites due to equipment malfunction it was obtained from the next closest meteorological site. Heney Lake meteorological site was used to fill in missing Harp data, while Paint Lake meteorological site data was used when Plastic Lake data was not available.

Summary Data Tables

Summary tables 1 to 12 contain chemistry and deposition results of individual sites from January, 1988 to April, 1992. In the snow depth and water equivalence columns the mean and standard deviation of three samples taken during one visit is presented. Values are not weighted by the percent snow cover. The results of the chemical analysis for each site are also presented in this table. Iron, manganese, aluminum, magnesium and dissolved organic carbon were added to the list of parameters in December, 1989. Data is available in Lotus 123 format upon request.

Chemistry Graphs

Selected parameters (same as previous report) were plotted versus time. The graphs show the mean and standard deviation of the results from all the sites in the watershed. For most of the season all six sites are included. During snowmelt in the spring, however, some sites lost their snow cover earlier than others. Some sites were also judged to contain too much debris to be sampled. In these cases the plotted data represents only the mean and standard deviation of those sites that were sampled.

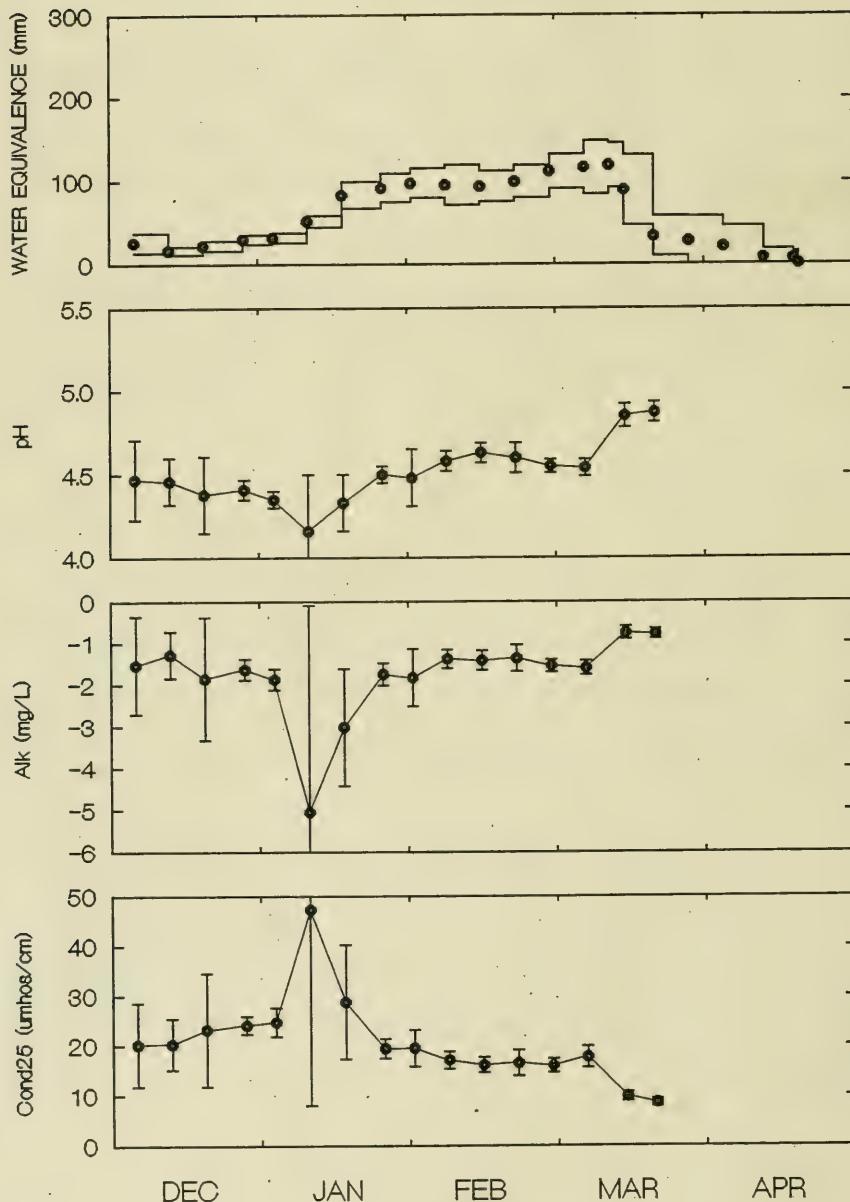
Snow Deposition and Weather Graphs

The graphs showing snow depth and water equivalence are also the mean of six sites. All data is weighted by the percent cover for that sampling date. Cover is usually 100%, except during spring when it varies between sites. During these times a mean of the percent cover from the six sites was used to represent the entire watershed.

REFERENCES

Ontario Ministry of the Environment. 1989. Biogeochemistry Project: Snow Cores 1988-1989 Plastic Lake, Harp Lake, Hawkeye Lake. Ont. Min. Envir. Data Report, December 1989.

PLASTIC LAKE SNOW CHEMISTRY
1989/90



PLASTIC LAKE SNOW CHEMISTRY
1989/90

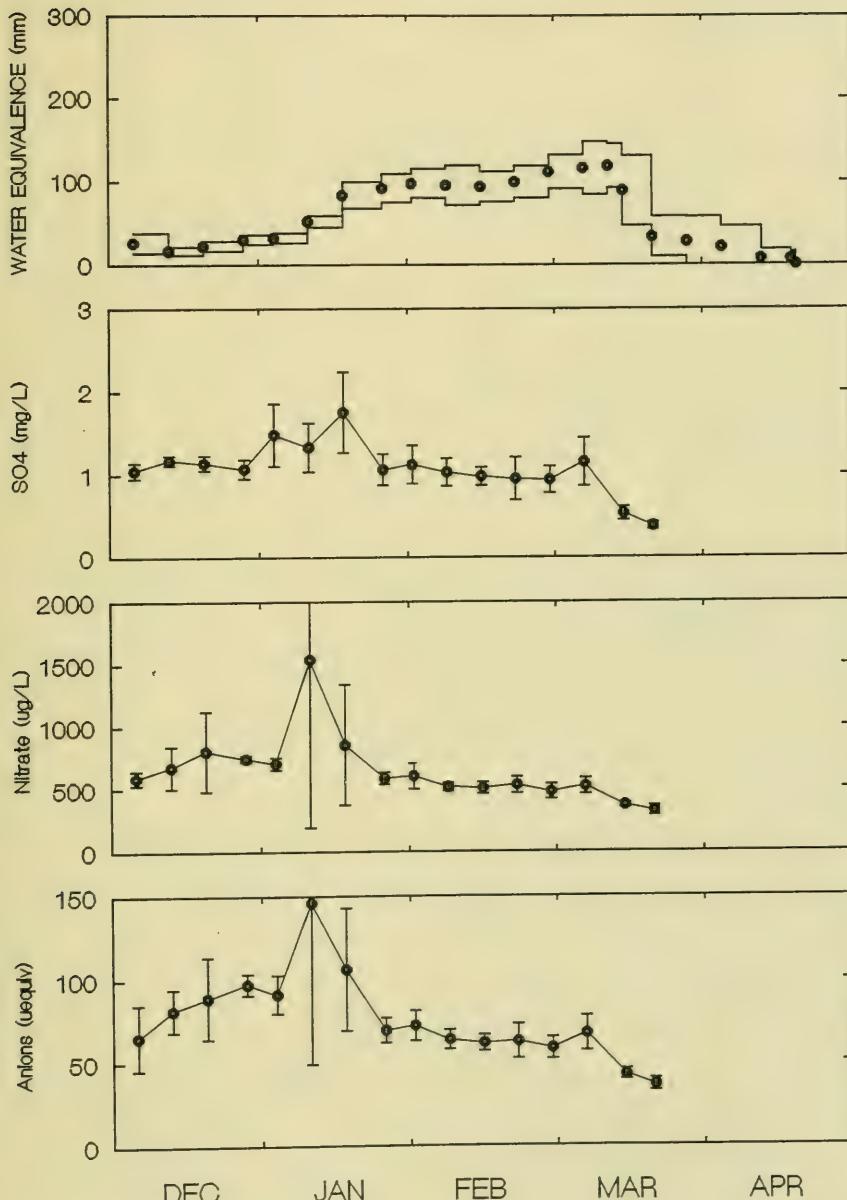


Fig. 1 (cont'd)

PLASTIC LAKE SNOW CHEMISTRY
1989/90

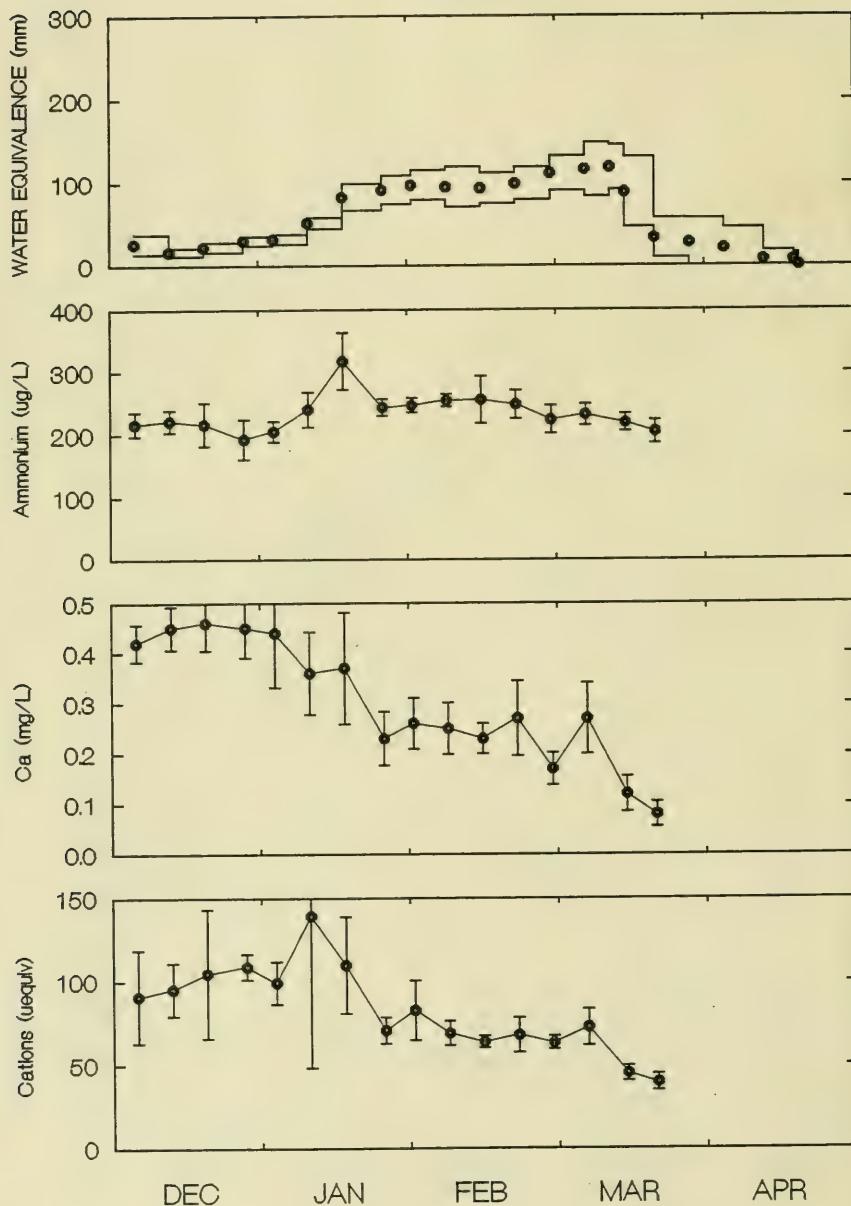
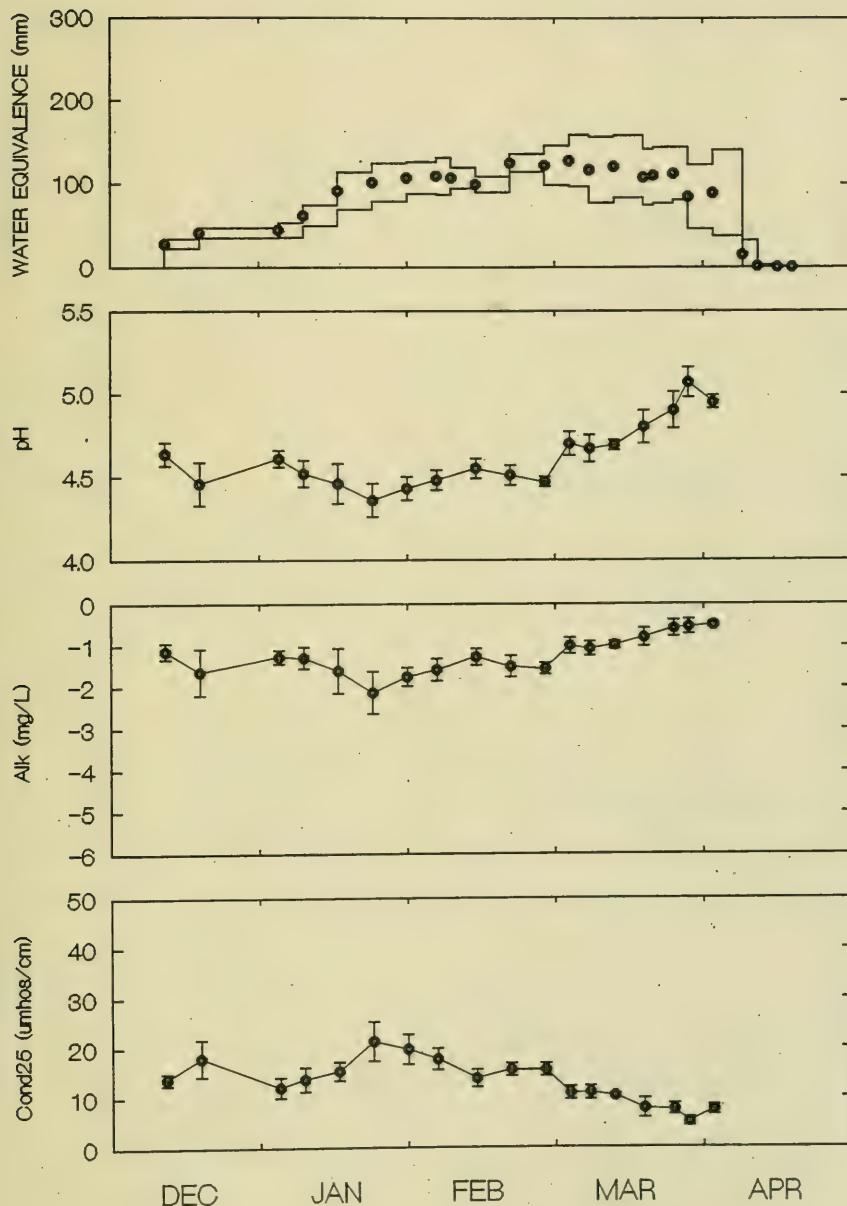


Fig. 1 (cont'd)

PLASTIC LAKE SNOW CHEMISTRY
1990/91



PLASTIC LAKE SNOW CHEMISTRY
1990/91

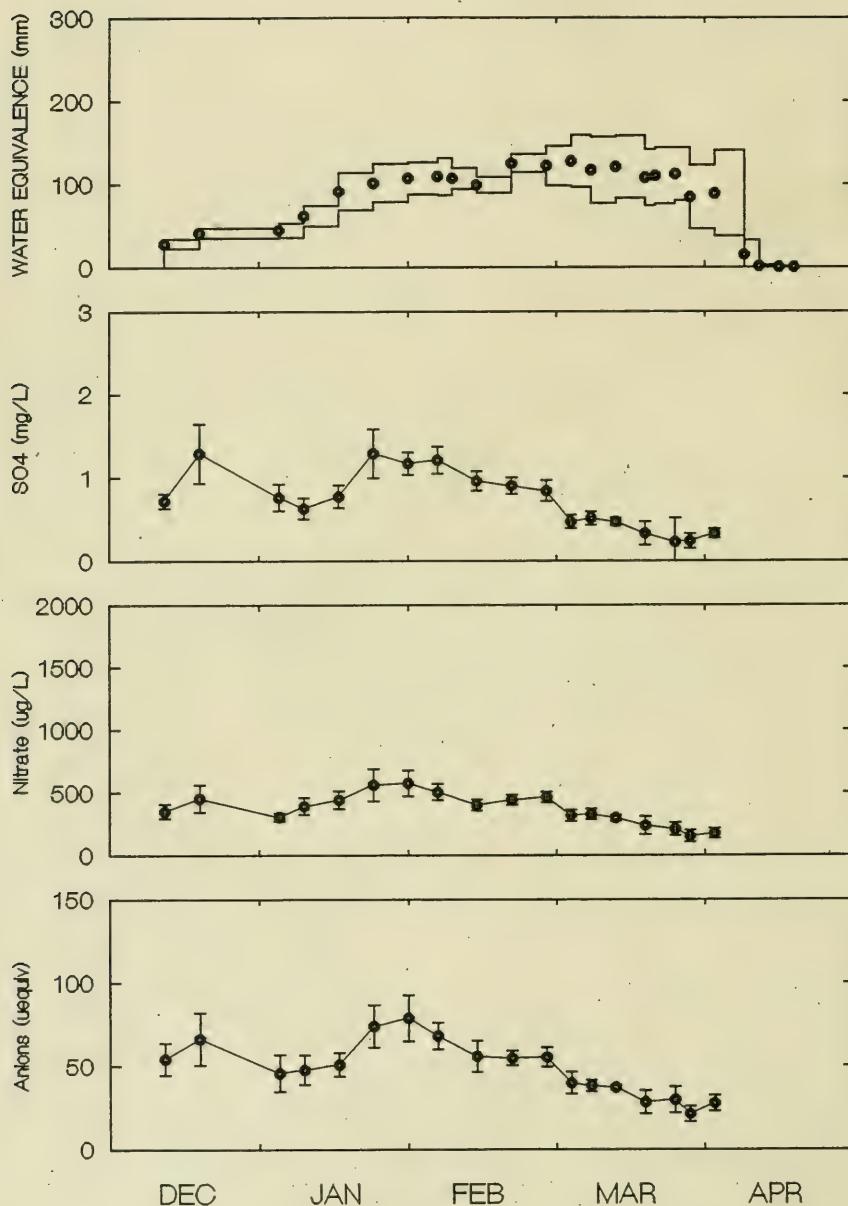


Fig. 2 (cont'd)

PLASTIC LAKE SNOW CHEMISTRY 1990/91

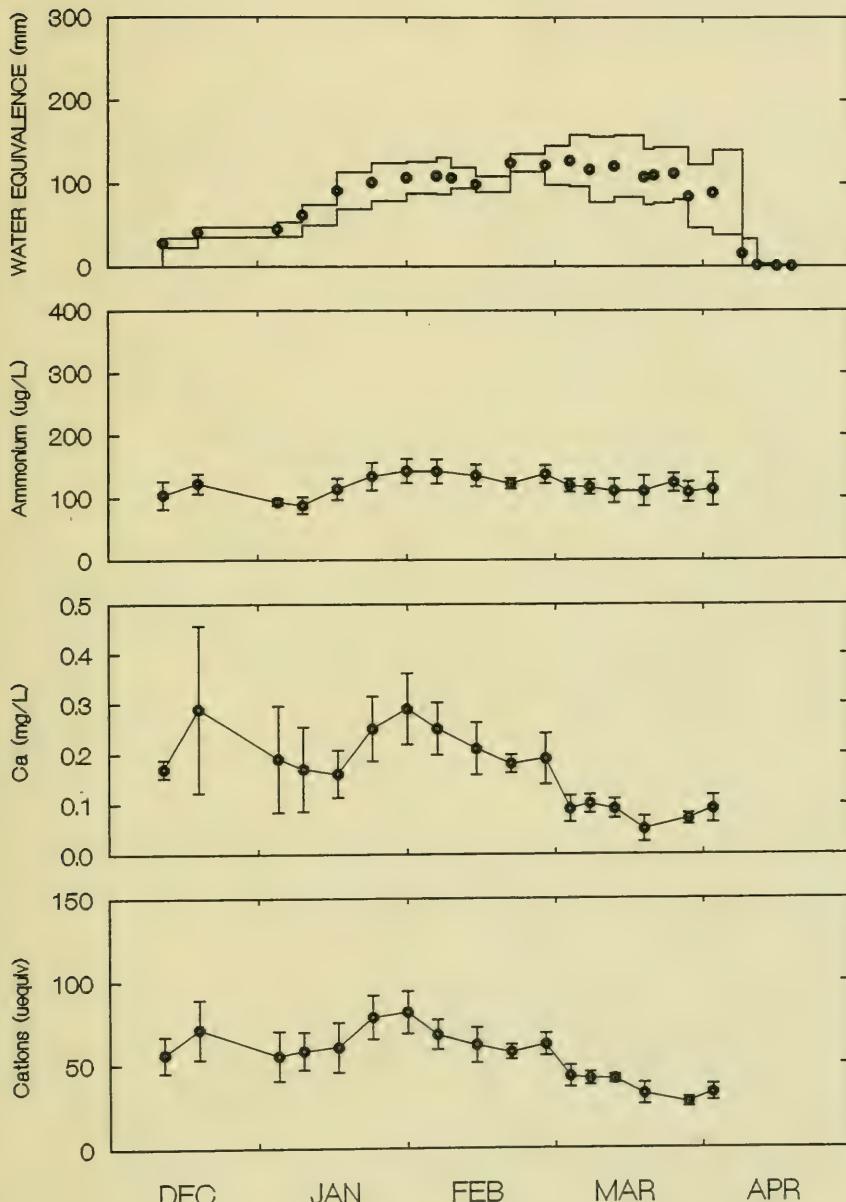
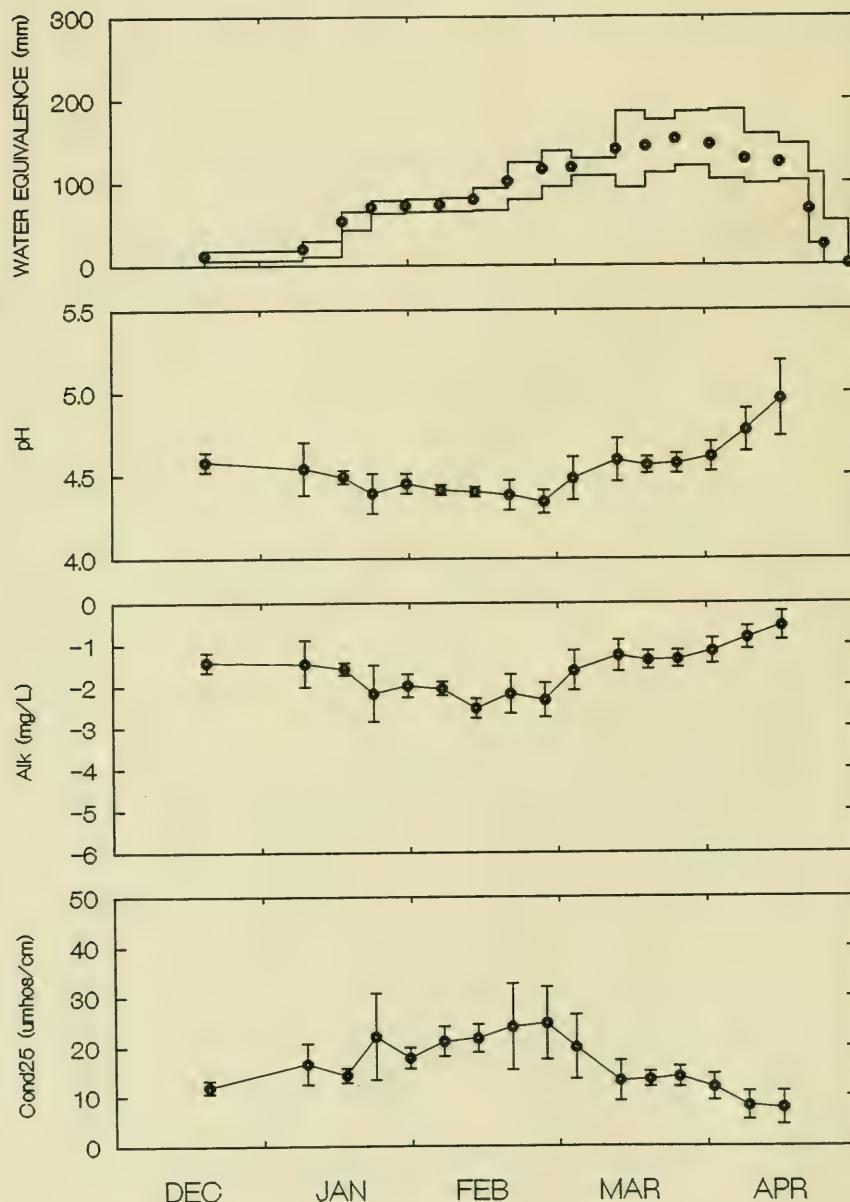


Fig. 2 (cont'd)

PLASTIC LAKE SNOW CHEMISTRY
1991/92



PLASTIC LAKE SNOW CHEMISTRY
1991/92

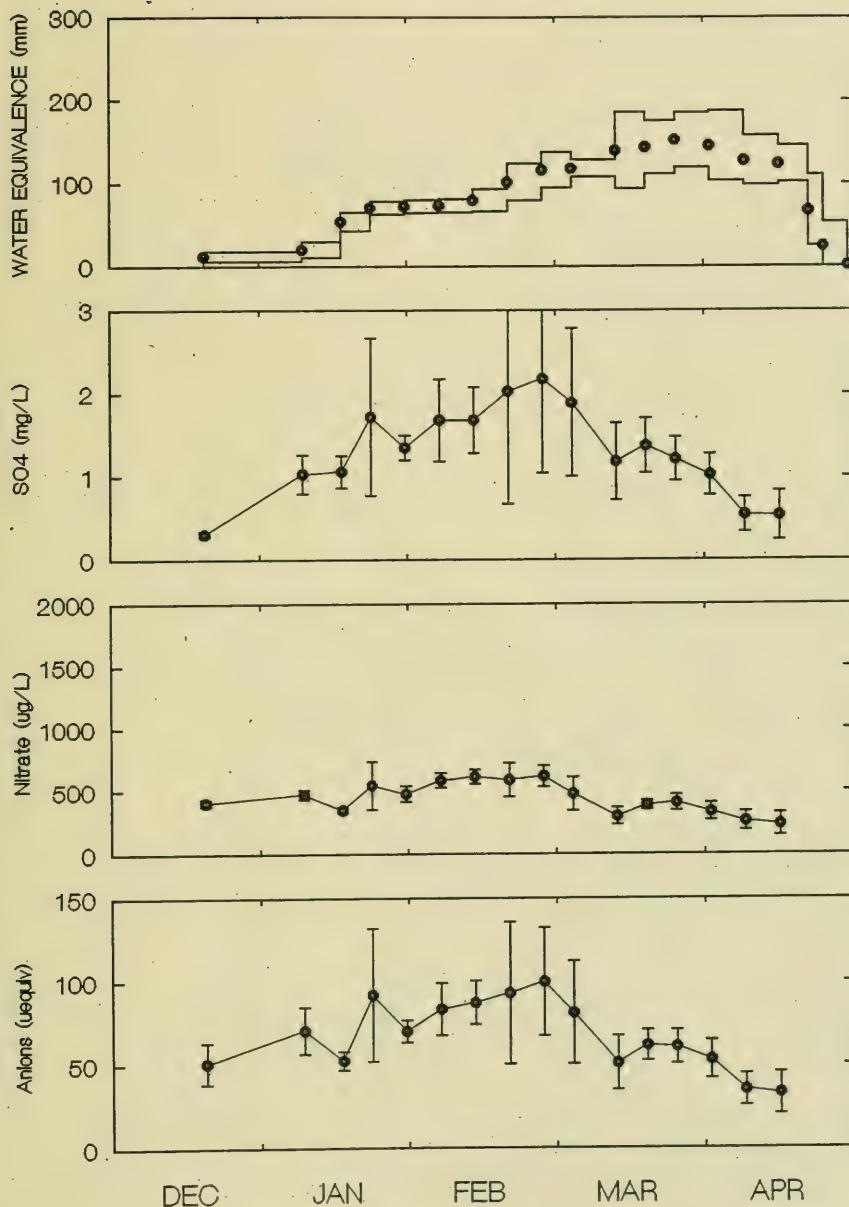


Fig. 3 (cont'd)

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1991/92

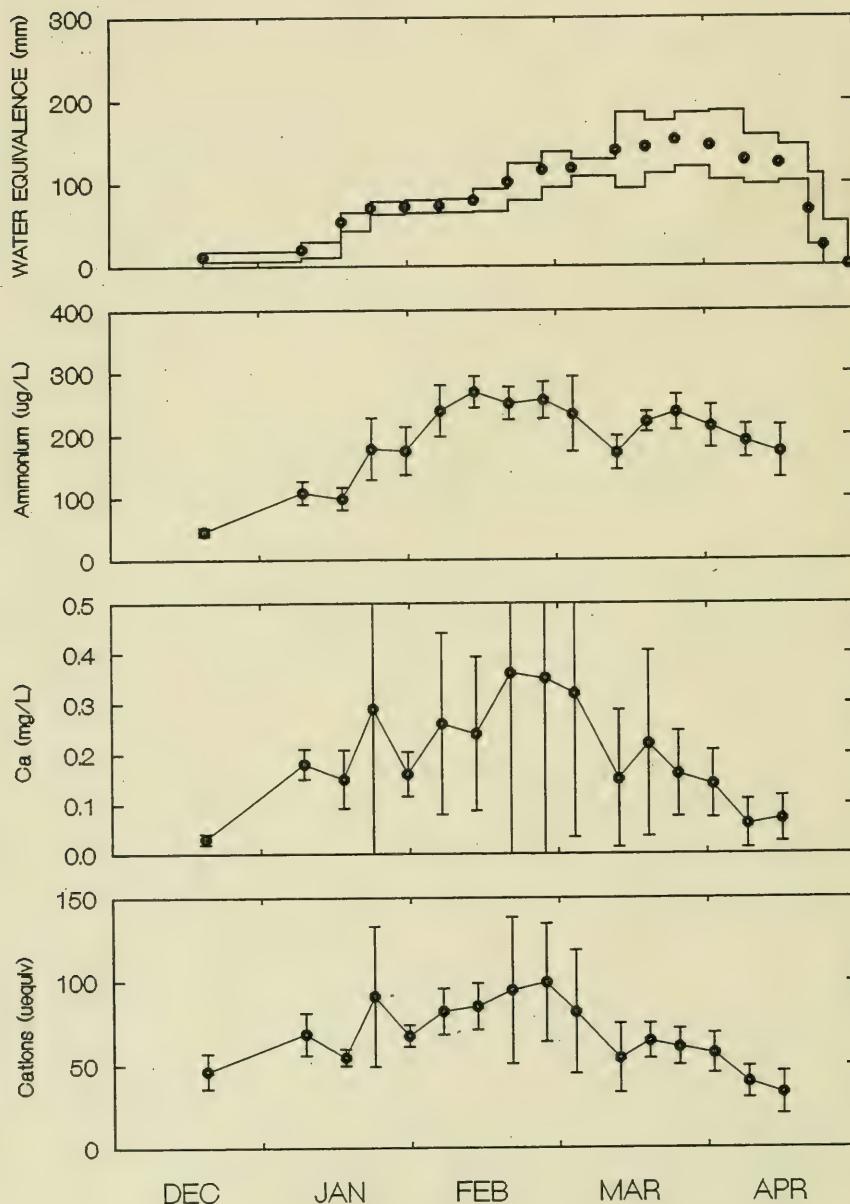


Fig. 3 (cont'd)

HARP LAKE SNOW CHEMISTRY
1989/90

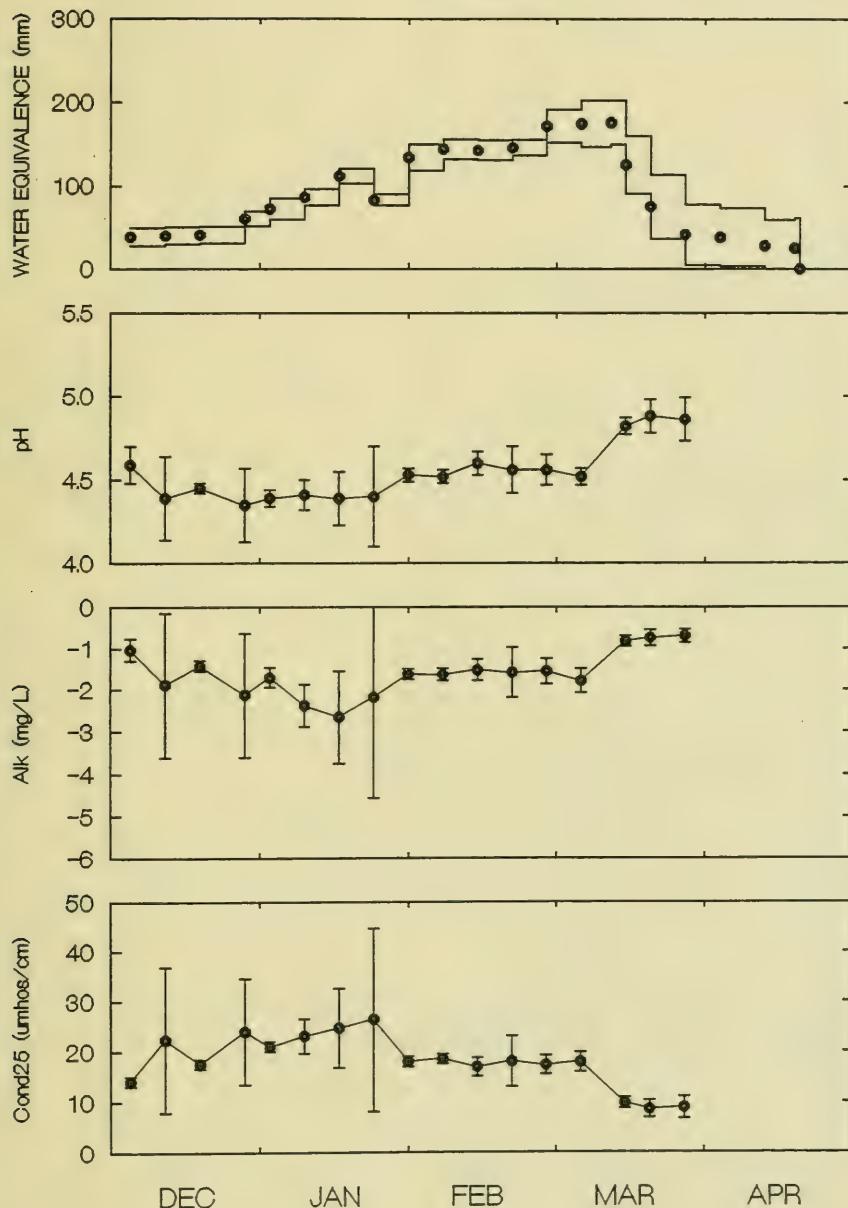


Fig. 4

HARP LAKE SNOW CHEMISTRY
1989/90

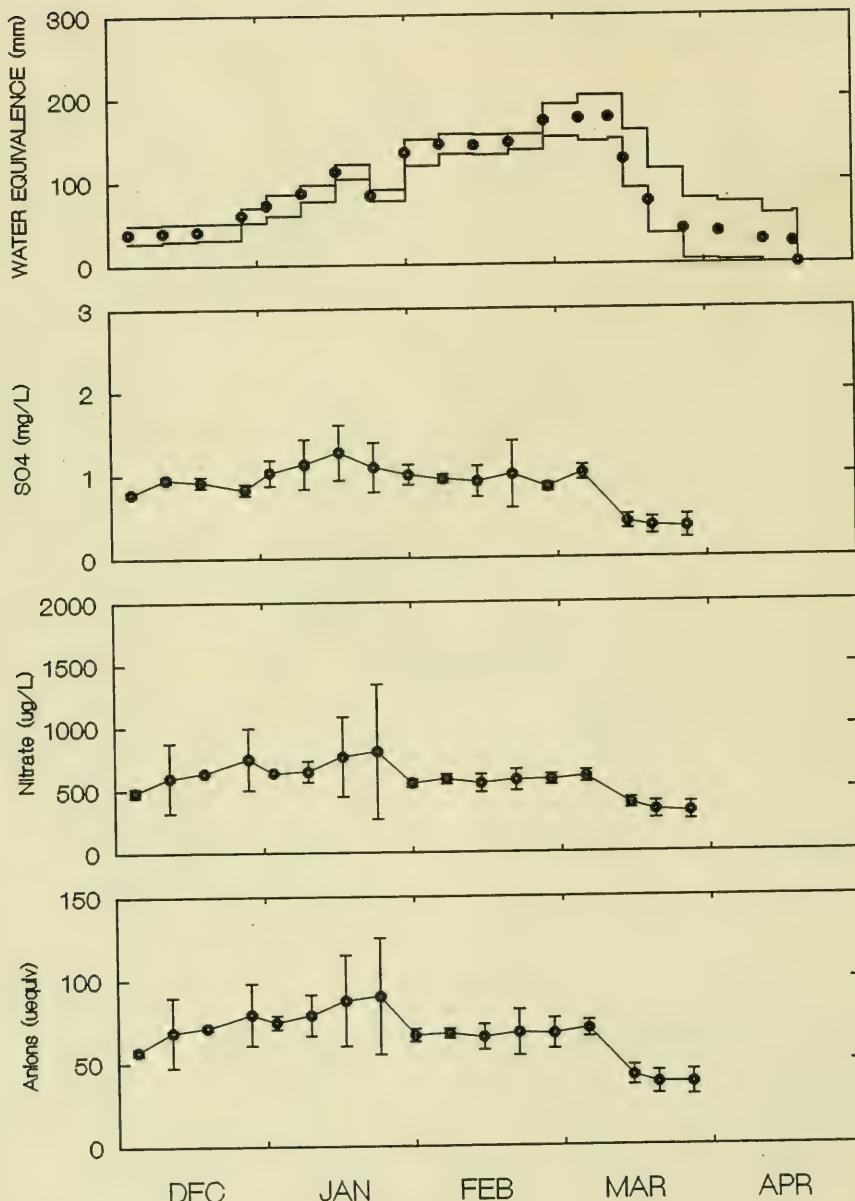


Fig. 4 (cont'd)

HARP LAKE SNOW CHEMISTRY
1989/90

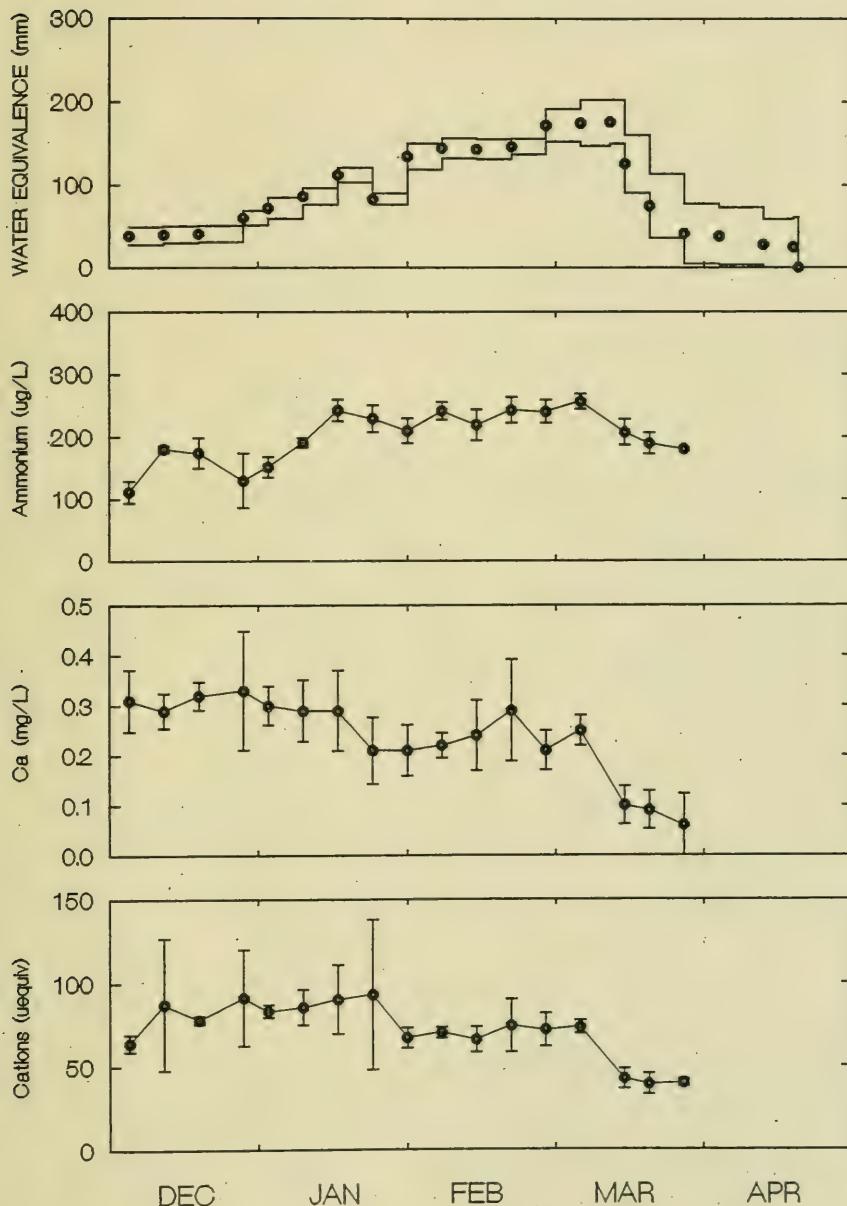
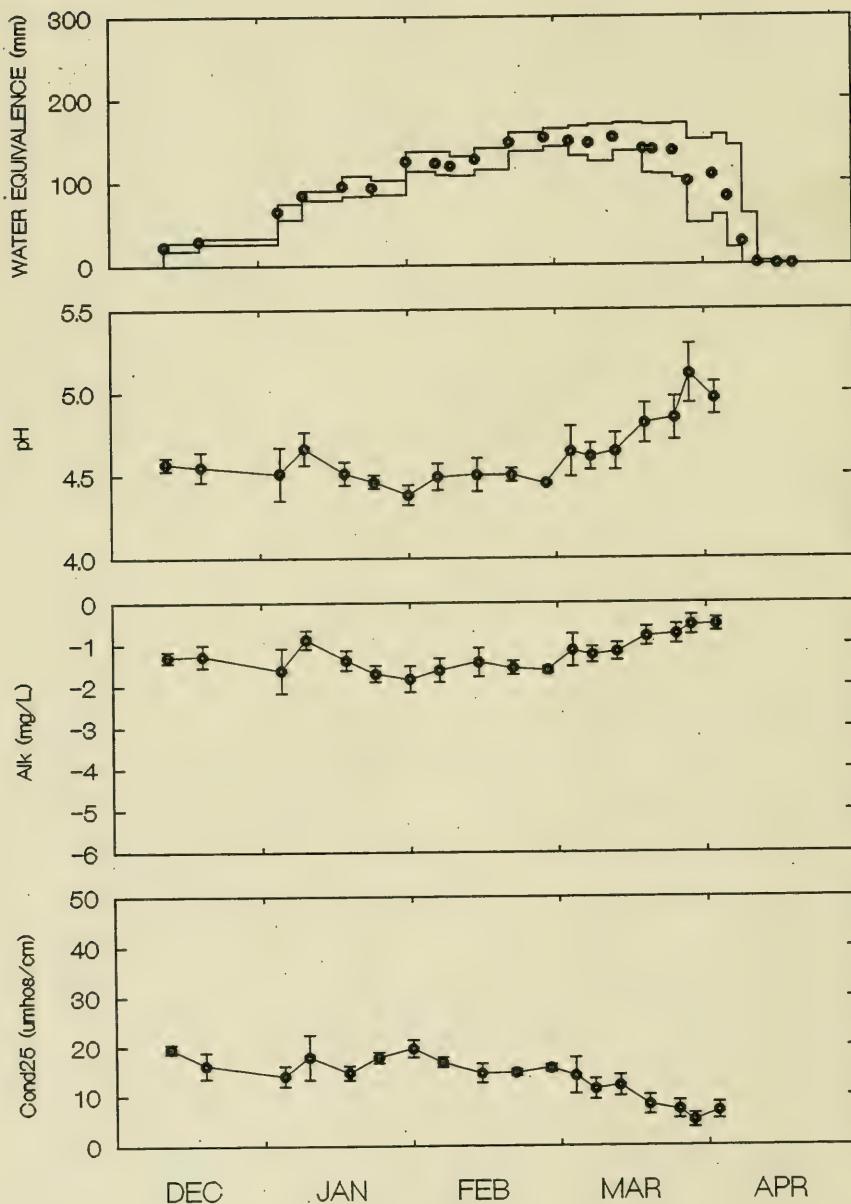
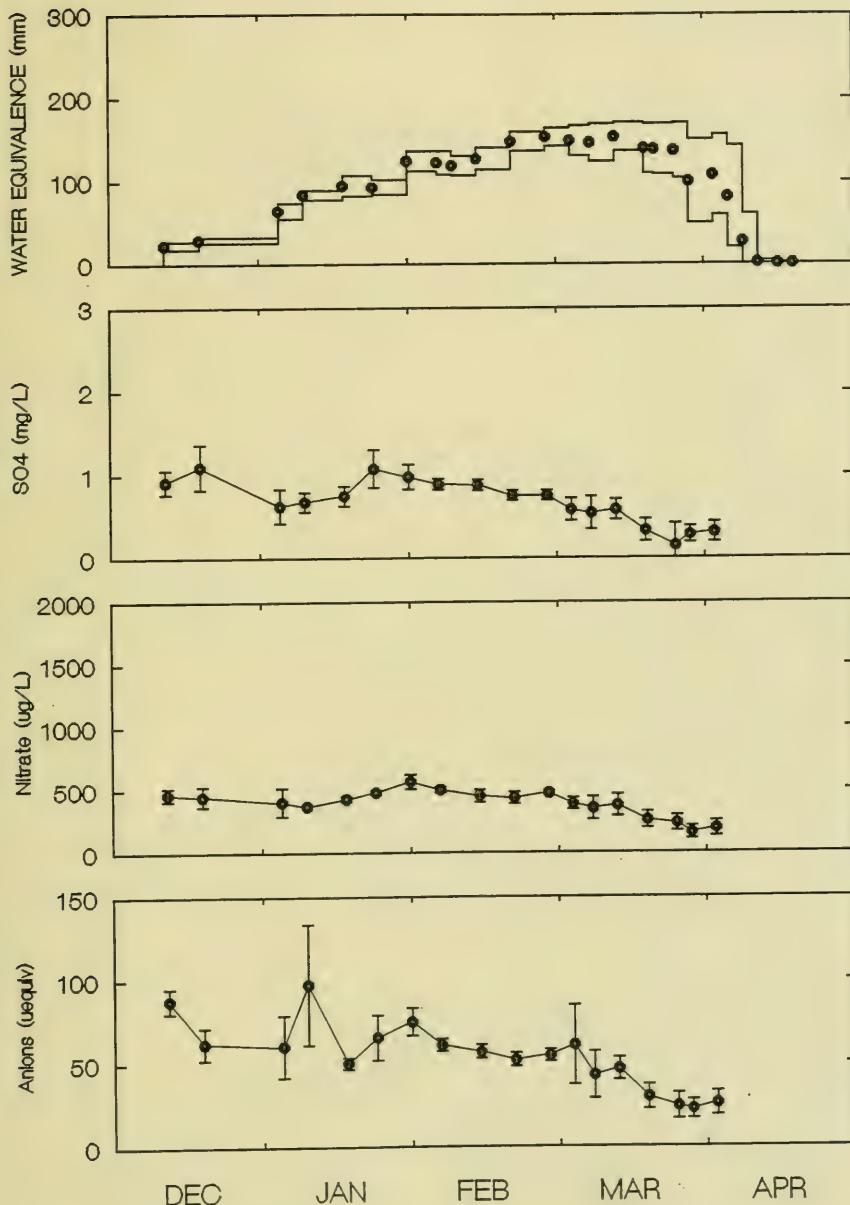


Fig. 4 (cont'd)

HARP LAKE SNOW CHEMISTRY
1990/91



HARP LAKE SNOW CHEMISTRY
1990/91



HARP LAKE SNOW CHEMISTRY
1990/91

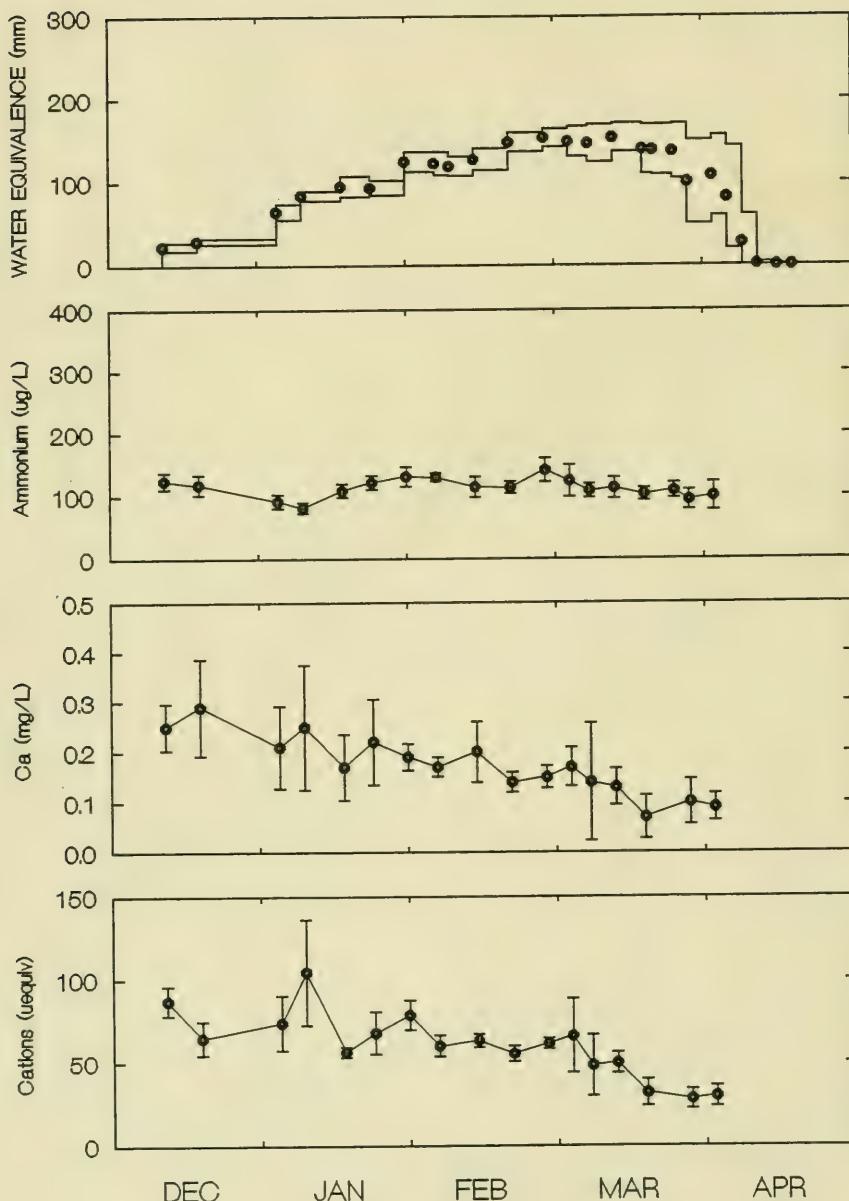
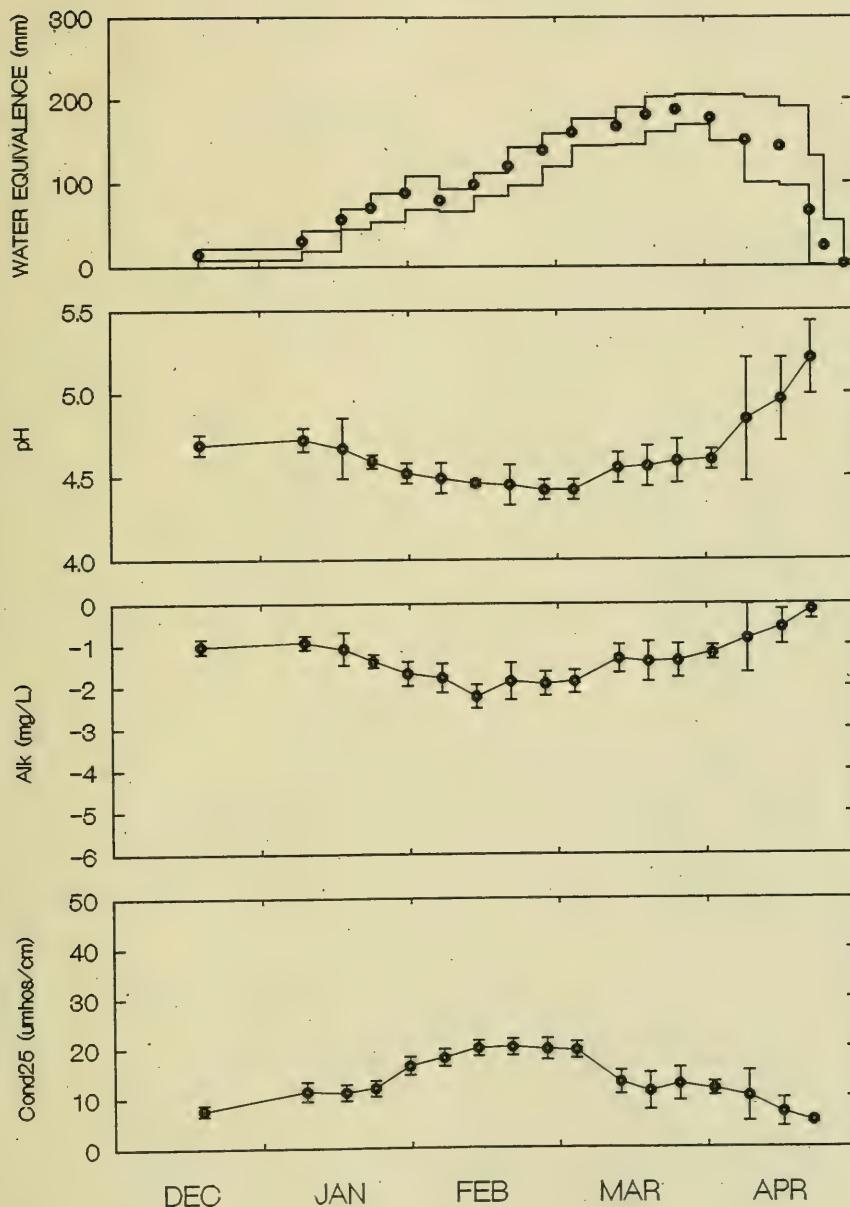


Fig. 5 (cont'd)

HARP LAKE SNOW CHEMISTRY
1991/92



HARP LAKE SNOW CHEMISTRY
1991/92

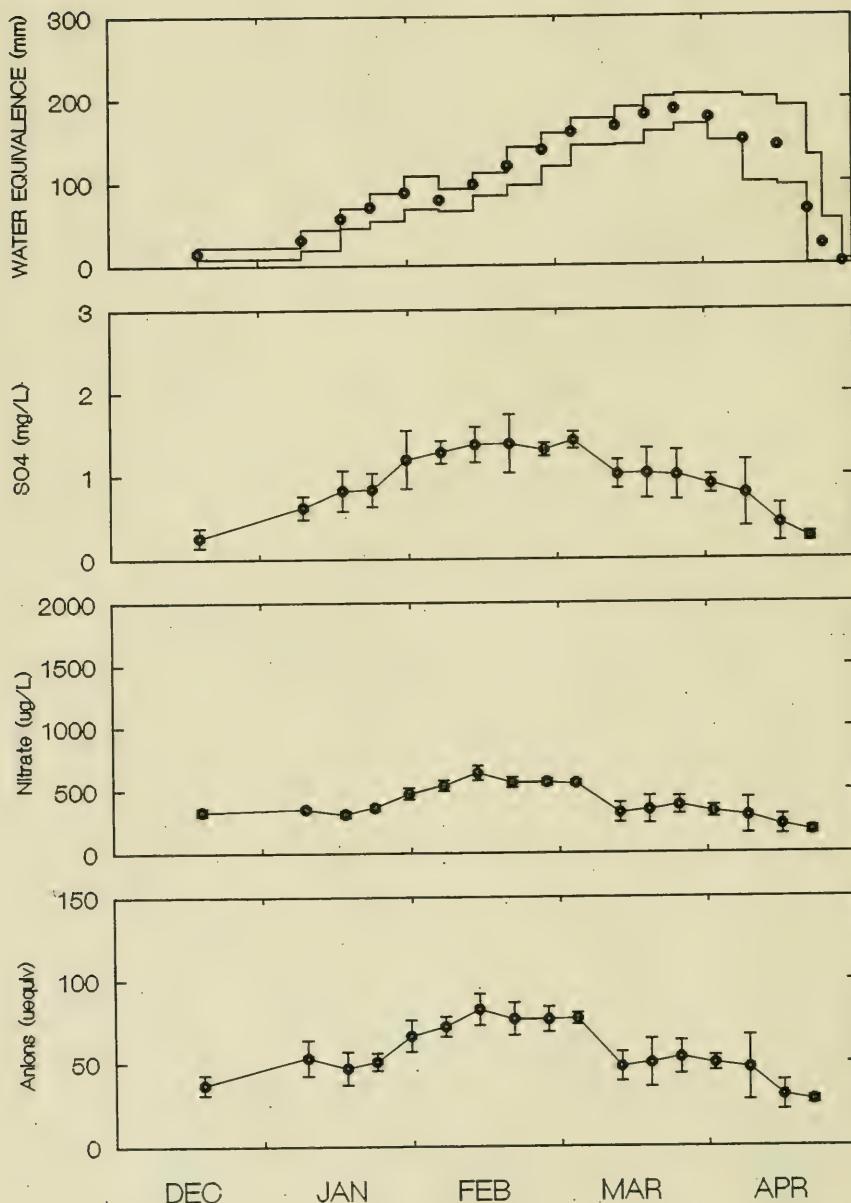


Fig. 6 (cont'd)

HARP LAKE SNOW CHEMISTRY
1991/92

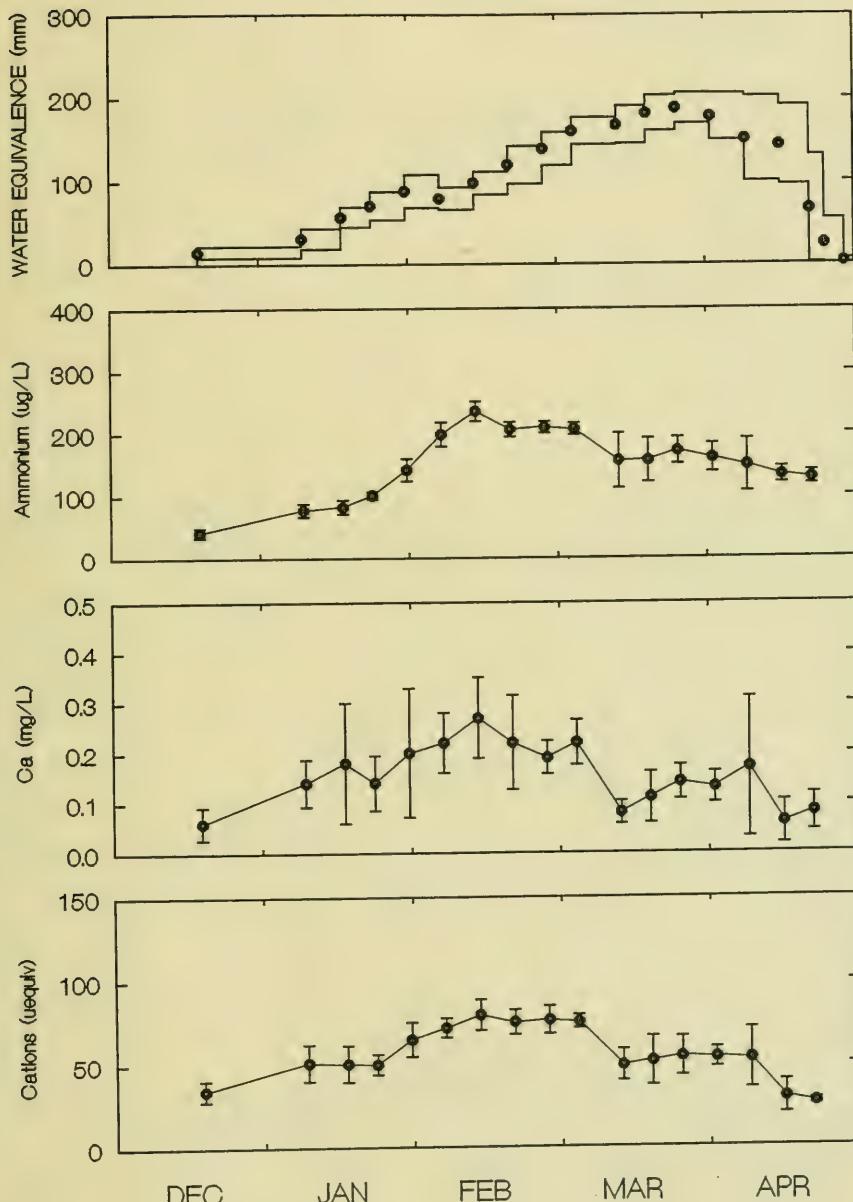


Fig. 6 (cont'd)

PLASTIC LAKE SNOW CORES
MEAN OF SIX STATIONS

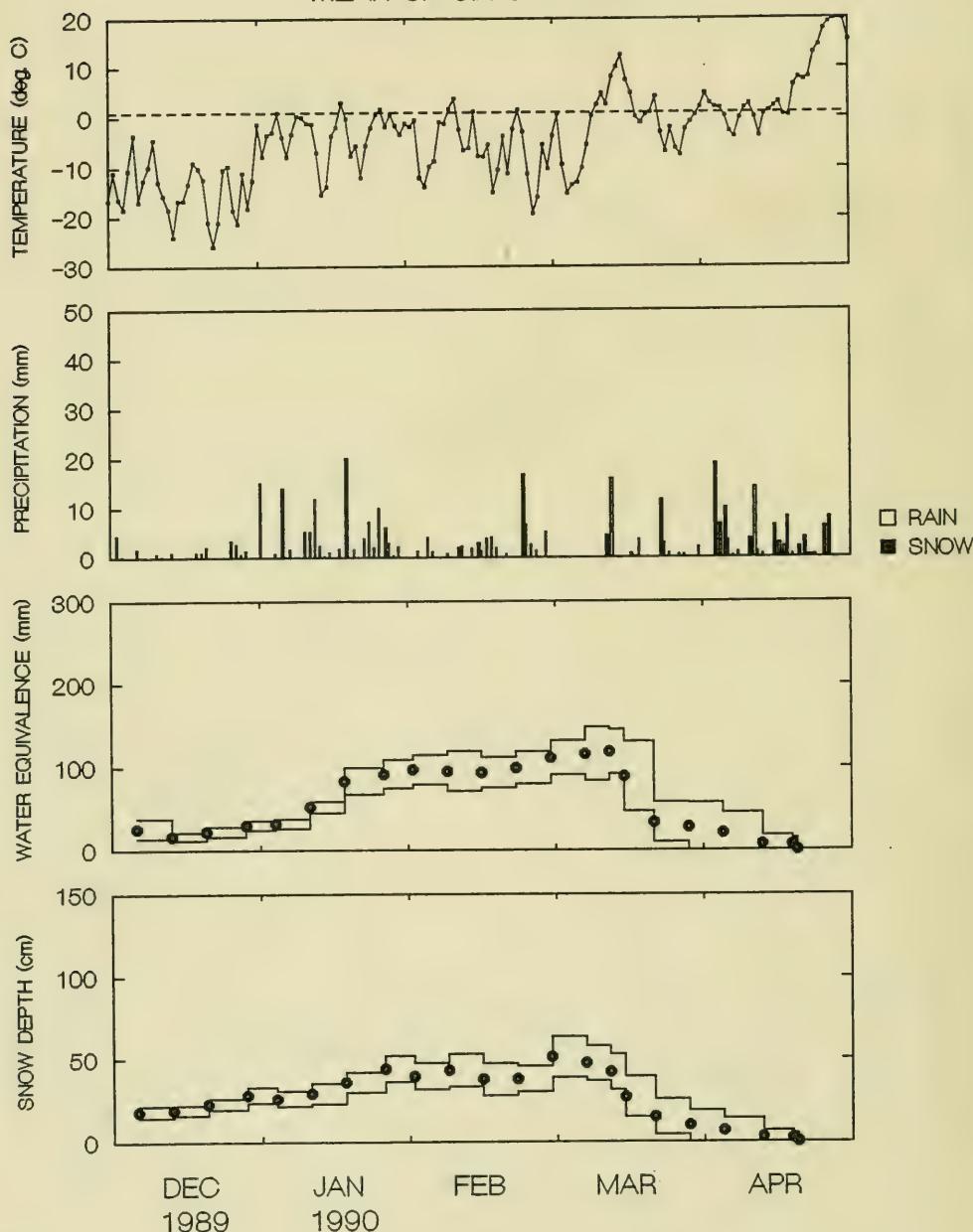
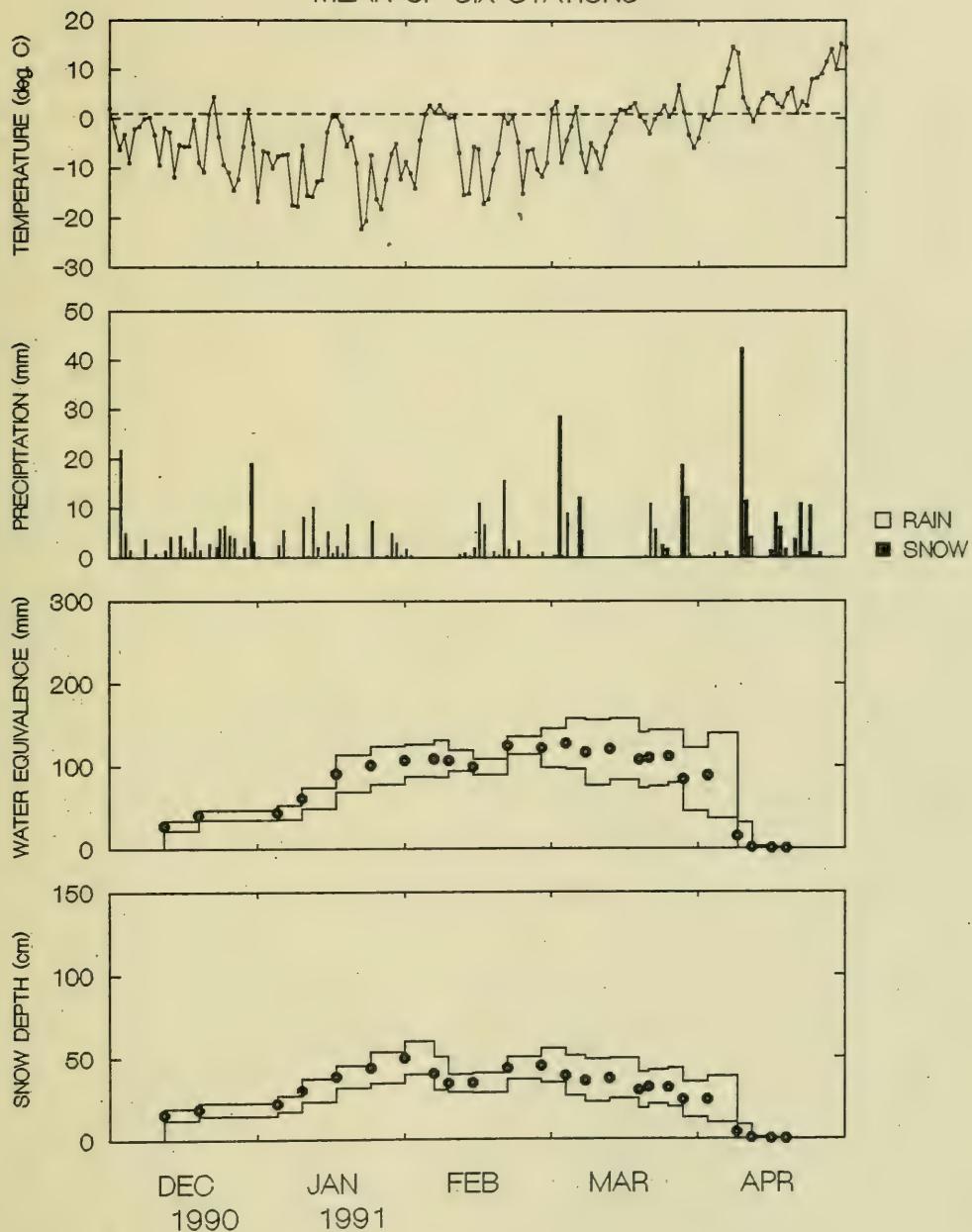
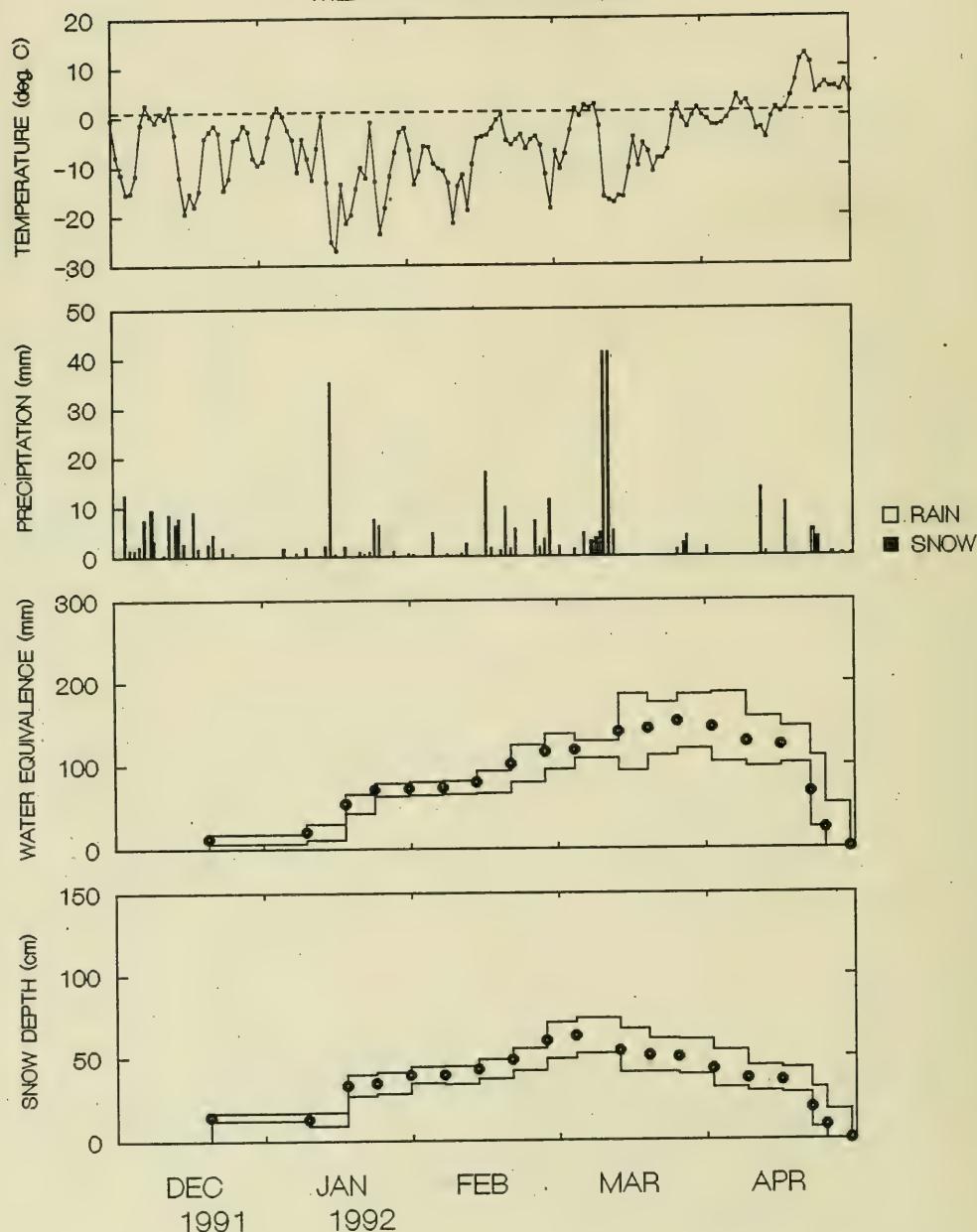


Fig. 7

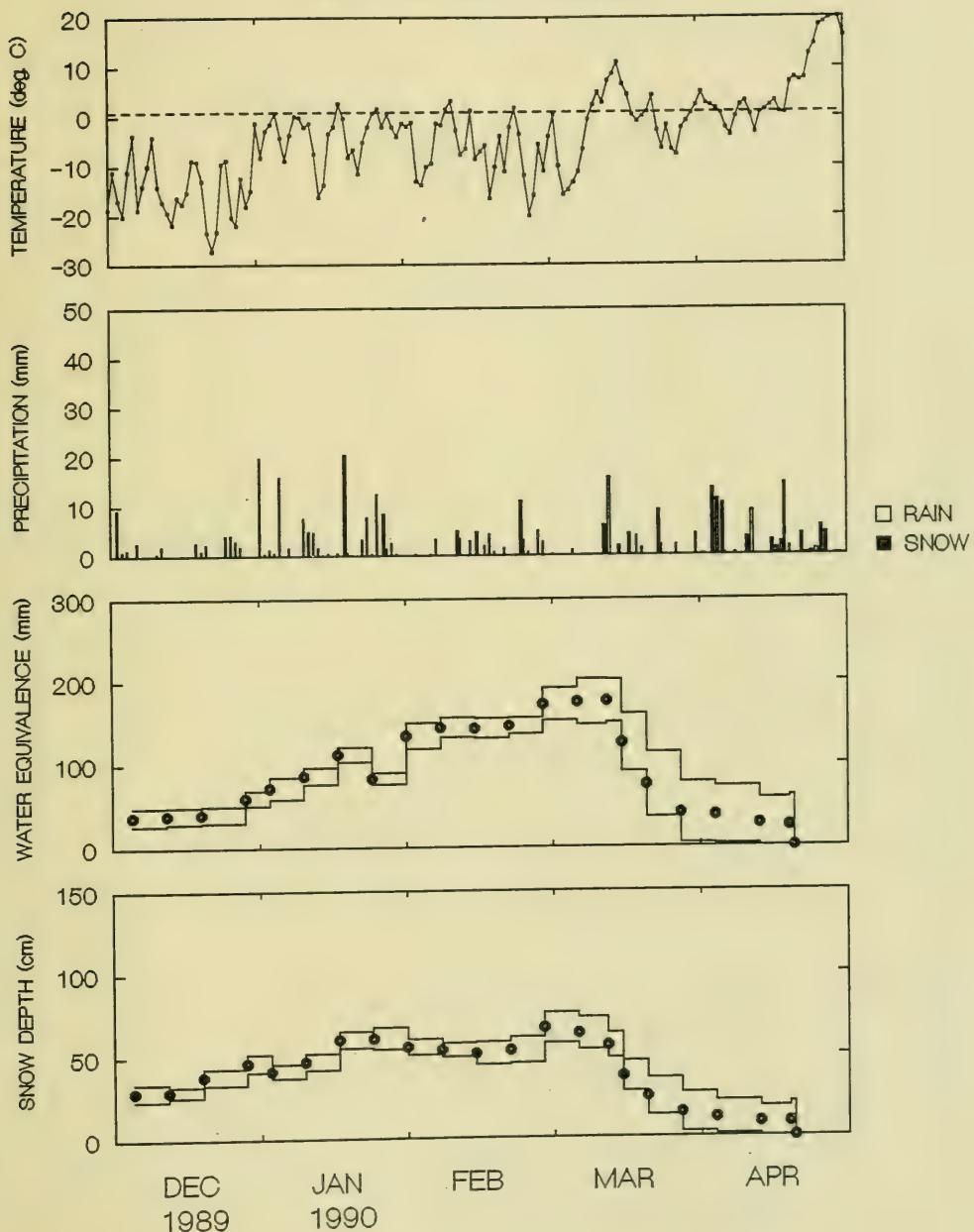
PLASTIC LAKE SNOW CORES
MEAN OF SIX STATIONS



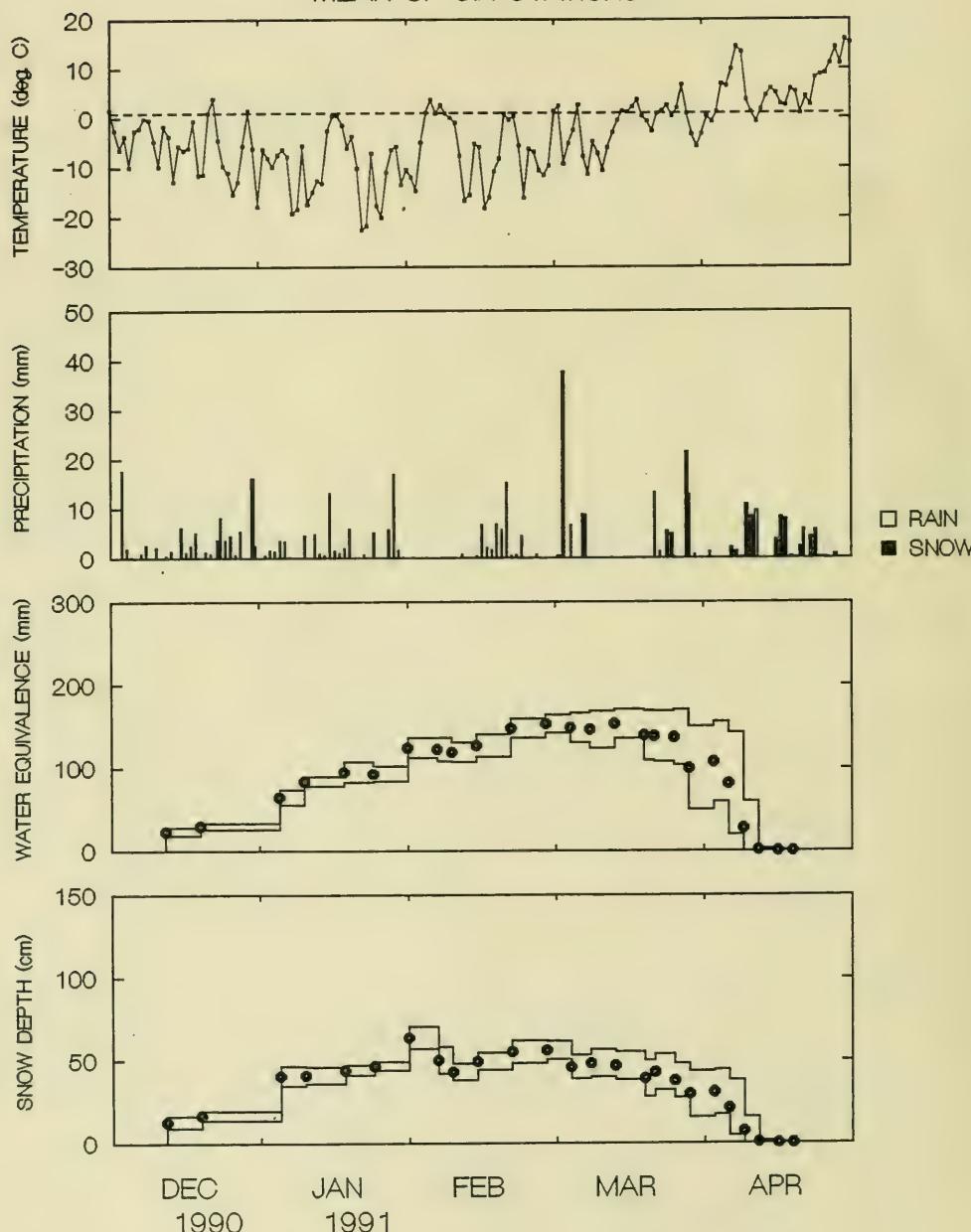
PLASTIC LAKE SNOW CORES
MEAN OF SIX STATIONS



HARP LAKE SNOW CORES
MEAN OF SIX STATIONS



HARP LAKE SNOW CORES
MEAN OF SIX STATIONS



HARP LAKE SNOW CORES
MEAN OF SIX STATIONS

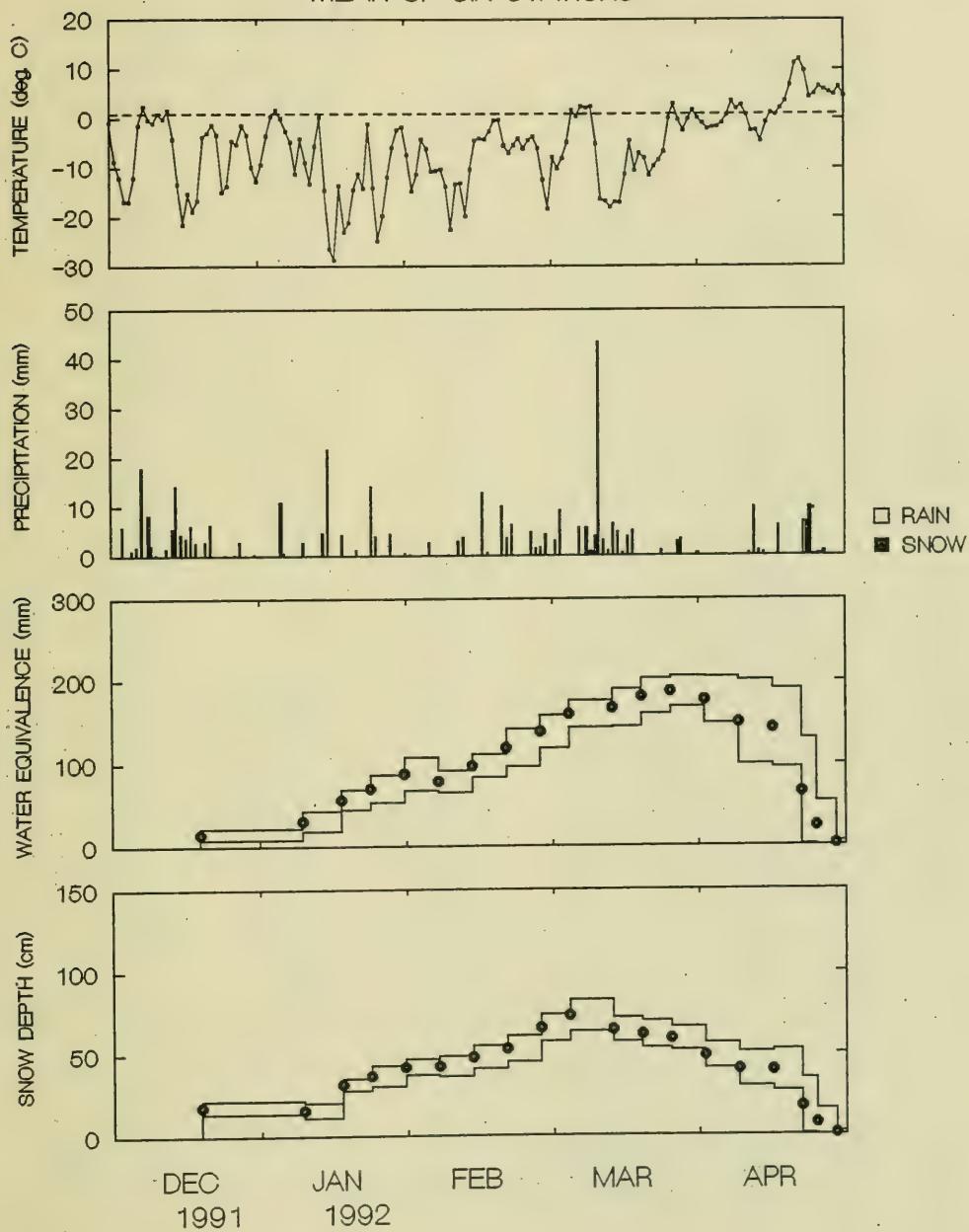


Fig. 12

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCST11

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | | % | COVER | PH | ALK (mg/L) | COND ₅₅ (mg/L) | SO ₄ (mg/L) | NITRATE (mg/L) | AMMONIA (mg/L) | Ca (mg/L) | Mg ₈ (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | |
|-------------|-----------------|------------------------|-------|------|-------|-------|------------|---------------------------|------------------------|----------------|----------------|-----------|------------------------|----------|-----------|-----------|------------|-----------|-----------|-----------|--|
| | | MEAN | S.D. | | | | | | | | | | | | | | | | | | |
| 22-JAN-88 | 36.0 | 7.9 | 95.7 | 26.3 | 100 | 4.58 | -1.40 | 16.4 | 1.70 | 69 | 2.5 | 0.34 | 0.22 | 0.07 | 0.20 | 0.06 | 0.17 | | | | |
| 08-FEB-88 | 43.3 | 8.3 | 101.1 | 27.7 | 100 | 4.57 | -1.55 | 16.8 | 1.45 | 360 | 1.30 | 0.38 | 0.20 | 0.08 | 0.04 | 0.24 | | | | | |
| 22-FEB-88 | 69.7 | 10.6 | 167.6 | 44.5 | 100 | 4.46 | -1.90 | 18.3 | 1.20 | 455 | 1.60 | 0.22 | 0.33 | 0.06 | 0.20 | | | | | | |
| 07-MAR-88 | 68.0 | 8.2 | 162.7 | 10.3 | 100 | 4.59 | -1.80 | 16.7 | 1.15 | 545 | 21.5 | 0.32 | 0.68 | 0.05 | 0.22 | | | | | | |
| 14-MAR-88 | 3.7 | 186.7 | 30.3 | 100 | 4.46 | -3.00 | 19.1 | 1.25 | 575 | 22.0 | 0.30 | | | | | | | | | | |
| 28-MAR-88 | 22.4 | 3.5 | 164.5 | 21.7 | 100 | 4.69 | -1.30 | 12.7 | 0.75 | 375 | 17.0 | 0.24 | 0.10 | 0.03 | 0.18 | | | | | | |
| 30-MAR-88 | 20.0 | 3.1 | 163.0 | 16.9 | 100 | 4.69 | -1.30 | 12.7 | 0.75 | 225 | 13.5 | 0.16 | 0.08 | 0.02 | 0.15 | | | | | | |
| 05-APR-88 | 14.9 | 3.0 | 108.7 | 9.7 | 67 | 4.85 | -0.82 | 8.7 | 0.55 | | | | | | | | | | | | |
| 07-APR-88 | 9.9 | 2.2 | 79.7 | 17.5 | 67 | 4.7 | -0.31 | 7.0 | 0.30 | 160 | 12.0 | 0.08 | 0.07 | 0.01 | 0.10 | | | | | | |
| 11-APR-88 | 7.5 | 3.0 | 49.1 | 33 | 4.97 | -0.31 | 7.0 | 0.30 | 160 | 12.0 | 0.08 | | | | | | | | | | |
| 15-APR-88 | 3.8 | 1.0 | 15.5 | 5.8 | 33 | 4.97 | -0.31 | 7.0 | 0.30 | 160 | 12.0 | 0.08 | | | | | | | | | |
| 18-APR-88 | 7.4 | 5.8 | 45.3 | 52.0 | 10 | 5.07 | -0.52 | 6.4 | 0.55 | 175 | 15.0 | 0.10 | 0.03 | 0.02 | 0.09 | | | | | | |
| 22-APR-88 | 7.5 | 6.9 | 53.0 | 64.5 | 10 | 0.0 | | | | | | | | | | | | | | | |
| 23-APR-88 | 0.0 | 0.0 | 4.0 | 100 | 4.76 | -1.00 | 11.1 | 0.90 | 275 | 14.5 | 0.24 | 0.08 | 0.04 | 0.17 | | | | | | | |
| 10-JAN-89 | 29.7 | 1.3 | 49.1 | 16.0 | 100 | 4.55 | -1.20 | 17.2 | 1.40 | 510 | 26.0 | 0.36 | 0.69 | 0.07 | 0.21 | | | | | | |
| 24-JAN-89 | 45.3 | 2.5 | 83.8 | 6.6 | 100 | 4.55 | -1.20 | 17.2 | 1.40 | 480 | 25.5 | 0.46 | 0.20 | 0.08 | 0.27 | | | | | | |
| 07-FEB-89 | 43.0 | 1.7 | 83.8 | 11.9 | 67 | 4.90 | -1.40 | 15.0 | 1.40 | 513 | 20.0 | 0.46 | 0.10 | 0.09 | 0.28 | | | | | | |
| 21-FEB-89 | 65.7 | 8.7 | 171.1 | 30.4 | 100 | 4.49 | -1.60 | 20.6 | 1.85 | 200 | 0.46 | | | | | | | | | | |
| 07-MAR-89 | 58.3 | 4.7 | 113.3 | 26.0 | 100 | 4.26 | -2.40 | 24.8 | 1.95 | 632 | 23.2 | 0.46 | 0.10 | 0.09 | 0.28 | | | | | | |
| 16-MAR-89 | 60.0 | 0.0 | 101.1 | 20.5 | 100 | 4.38 | -2.10 | 20.0 | 1.55 | 635 | 24.5 | 0.36 | 0.05 | 0.07 | 0.22 | | | | | | |
| 20-MAR-89 | 86.3 | 3.2 | 176.6 | 16.0 | 100 | 4.38 | -2.10 | 20.0 | 1.55 | 325 | 18.5 | 0.08 | 0.04 | 0.03 | 0.16 | | | | | | |
| 28-MAR-89 | 53.7 | 1.5 | 136.3 | 14.0 | 100 | 4.76 | -1.00 | 16.2 | 0.45 | | | | | | | | | | | | |
| 31-MAR-89 | 40.3 | 1.3 | 125.6 | 16.3 | 100 | 4.95 | -0.36 | 9.7 | 0.50 | 272 | 190 | 0.16 | 0.08 | 0.00 | 0.22 | | | | | | |
| 03-APR-89 | -48.3 | 2.5 | 126.3 | 21.8 | 100 | 4.95 | -0.36 | 9.7 | 0.50 | | | | | | | | | | | | |
| 06-APR-89 | 36.0 | 4.4 | 66.7 | 11.5 | 100 | 4.67 | -0.63 | 10.0 | 0.70 | 272 | 190 | 0.22 | 0.13 | 0.04 | 0.14 | | | | | | |
| 10-APR-89 | 42.7 | 2.5 | 129.4 | 4.6 | 100 | 4.93 | -0.63 | 10.0 | 0.70 | 272 | 190 | 0.22 | | | | | | | | | |
| 13-APR-89 | 58.7 | 2.5 | 155.6 | 13.4 | 100 | 5.11 | -0.34 | 8.1 | 0.30 | 260 | 170 | 0.16 | 0.09 | 0.05 | 0.17 | | | | | | |
| 18-APR-89 | 40.3 | 2.5 | 130.1 | 7.0 | 100 | 5.11 | -0.34 | 8.1 | 0.30 | | | | | | | | | | | | |
| 20-APR-89 | 43.3 | 3.2 | 139.3 | 14.0 | 100 | 4.37 | -1.80 | 24.0 | 1.35 | 705 | 22.3 | 0.42 | 0.07 | 0.17 | 0.31 | 1.20 | 0.03 | 0.03 | 0.22 | | |
| 24-APR-89 | 31.0 | 5.0 | 114.1 | 20.8 | 100 | 4.37 | -1.80 | 24.0 | 1.35 | 660 | 21.8 | 0.36 | 0.06 | 0.17 | 0.35 | 0.90 | 0.02 | 0.03 | 0.23 | | |
| 01-JAN-90 | 20.3 | 2.1 | 67.5 | 9.2 | 50 | 0.0 | | | | | | | | | | | | | | | |
| 28-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| 06-DEC-89 | 18.5 | 0.5 | 22.4 | 1.3 | 100 | 4.49 | -1.30 | 18.6 | 1.15 | 666 | 21.6 | 0.45 | 0.09 | 0.18 | 0.15 | 0.32 | 1.30 | 0.04 | 0.03 | 37 | |
| 13-DEC-89 | 18.5 | 0.5 | 14.0 | 1.3 | 100 | 4.45 | -1.20 | 20.4 | 1.20 | 240 | 14.5 | 0.46 | 0.09 | 0.17 | 0.13 | 0.20 | 0.80 | 0.05 | 0.01 | 38 | |
| 20-DEC-89 | 21.5 | 1.8 | 21.6 | 4.6 | 100 | 4.43 | -1.40 | 19.9 | 1.15 | 720 | 17.2 | 0.45 | 0.09 | 0.38 | 0.13 | 0.30 | 0.90 | 0.03 | 0.04 | 29 | |
| 28-DEC-89 | 27.0 | 1.0 | 38.4 | 13.2 | 100 | 4.39 | -1.70 | 24.9 | 1.10 | 783 | 21.2 | 0.43 | 0.08 | 0.17 | 0.12 | 0.34 | 1.00 | 0.03 | 0.04 | 30 | |
| 03-JAN-90 | 25.3 | 4.9 | 29.3 | 8.1 | 100 | 4.37 | -1.80 | 24.0 | 1.35 | 705 | 22.3 | 0.42 | 0.07 | 0.17 | 0.15 | 0.31 | 1.20 | 0.03 | 0.03 | | |
| 10-JAN-90 | 31.7 | 1.3 | 50.7 | 5.8 | 100 | 4.42 | -2.10 | 23.5 | 1.30 | 660 | 21.8 | 0.36 | 0.06 | 0.17 | 0.19 | 0.90 | 0.02 | 0.03 | | | |
| 17-JAN-90 | 35.0 | 2.0 | 75.1 | 2.6 | 100 | 4.39 | -2.50 | 24.7 | 1.85 | 670 | 29.9 | 0.38 | 0.05 | 0.14 | 0.15 | 0.24 | 1.10 | 0.03 | 0.02 | | |
| 25-JAN-90 | 8.3 | 1.9 | 97.3 | 1.3 | 100 | 4.49 | -1.30 | 18.6 | 1.15 | 666 | 21.6 | 0.45 | 0.09 | 0.18 | 0.15 | 0.32 | 1.30 | 0.04 | 0.03 | | |
| 31-JAN-90 | 39.2 | 0.3 | 91.2 | 3.5 | 100 | 4.41 | -2.10 | 21.5 | 1.20 | 680 | 26.0 | 0.23 | 0.04 | 0.10 | 0.09 | 0.20 | 0.80 | 0.02 | 0.01 | 23 | |
| 07-FEB-90 | 45.7 | 4.5 | 98.0 | 4.8 | 100 | 4.55 | -1.40 | 19.2 | 0.35 | 487 | 24.6 | 0.20 | -0.03 | 0.10 | 0.09 | 0.27 | 0.90 | 0.03 | 0.02 | 26 | |
| 14-FEB-90 | 27.0 | 2.6 | 80.5 | 1.3 | 100 | 4.59 | -1.60 | 17.9 | 1.10 | 534 | 24.0 | 0.27 | 0.03 | 0.17 | 0.18 | 1.00 | 0.04 | 0.04 | 36 | | |
| 21-FEB-90 | 35.0 | 1.7 | 86.5 | 10.3 | 100 | 4.47 | -1.90 | 20.8 | 1.35 | 617 | 26.7 | 0.39 | 0.06 | 0.18 | 0.09 | 0.21 | 1.30 | 0.05 | 0.06 | 49 | |
| 28-FEB-90 | 52.0 | 0.0 | 108.0 | 7.0 | 100 | 4.51 | -1.70 | 17.3 | 1.20 | 486 | 22.2 | 0.22 | 0.05 | 0.13 | 0.09 | 0.19 | 0.70 | 0.03 | 0.05 | 26 | |
| 07-MAR-90 | 48.5 | 2.0 | 125.6 | 7.4 | 100 | 4.49 | -1.80 | 19.9 | 1.35 | 533 | 23.6 | 0.34 | 0.06 | 0.18 | 0.11 | 0.23 | 1.30 | 0.03 | 0.06 | 26 | |
| 12-MAR-90 | 32.2 | 3.2 | 124.0 | 21.7 | 100 | 4.84 | -0.85 | 10.7 | 0.65 | 314 | 24.0 | 0.15 | 0.04 | 0.18 | 0.08 | 0.21 | 1.30 | 0.04 | 0.03 | 37 | |
| 15-MAR-90 | 22.3 | 2.3 | 72.1 | 0.0 | | | | | | | | | | | | | | | | | |

Table 1 (cont'd)

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN S.D. (mm) | % COVER | CHEMICAL PARAMETERS | | | | | | | | | | Mn (ng/L) | | | | | | | |
|-------------|-----------------|----------------------------------|---------|---------------------|------------|---------------------------|------------------------|----------------|----------------|-----------|-----------|----------|-----------|-----------|------|------|------|------|------|------|----|
| | | | | PH | ALK (mg/L) | COD ₂₅₅ (mg/L) | SO ₄ (mg/L) | Nitrate (mg/L) | Ammonia (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | | | | | | | | |
| 21-MAR-90 | 2.6 | 37.5 | 3.5 | 9.0 | 4.87 | -0.73 | 8.3 | 0.35 | 298 | 180 | 0.06 | 0.62 | 0.08 | 0.18 | 0.50 | 0.04 | 0.01 | 39 | | | |
| 28-MAR-90 | 3.1 | 36.8 | 10.5 | 4.0 | 5.5 | | | | | | | | | | | | | | | | |
| 04-APR-90 | 11.3 | 33.1 | 4.0 | 50 | | | | | | | | | | | | | | | | | |
| 12-APR-90 | 8.8 | 1.6 | 20.1 | 4.8 | 23 | | | | | | | | | | | | | | | | |
| 18-APR-90 | 8.7 | 4.0 | 20.6 | 25 | | | | | | | | | | | | | | | | | |
| 19-APR-90 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | | | | |
| 12-DEC-90 | 14.3 | 1.2 | 26.2 | 4.0 | | 4.57 | -1.30 | 15.0 | 0.80 | 390 | 14 | 0.16 | 0.03 | 0.10 | 0.26 | 0.34 | 0.60 | 0.02 | 21 | | |
| 19-DEC-90 | 19.7 | 2.5 | 42.3 | 1.00 | | 4.25 | -2.60 | 16.9 | 1.15 | 418 | 120 | 0.24 | 0.05 | 0.15 | 0.10 | 0.27 | 1.10 | 0.03 | 21 | | |
| 04-JAN-91 | 19.3 | 2.3 | 42.3 | 6.1 | 100 | 4.59 | -1.42 | 14.2 | 0.50 | 305 | 101 | 0.18 | 0.04 | 0.18 | 0.12 | 0.36 | 0.86 | 0.06 | 40 | | |
| 09-JAN-91 | 28.3 | 1.5 | 63.7 | 1.3 | 100 | 4.44 | -1.30 | 14.6 | 0.63 | 421 | 81 | 0.16 | 0.03 | 0.13 | 0.14 | 0.19 | 0.90 | 0.04 | 0.01 | 27 | |
| 16-JAN-91 | 42.0 | 3.6 | 87.3 | 9.5 | 100 | 4.23 | -2.60 | 17.2 | 0.70 | 546 | 107 | 0.18 | 0.04 | 0.25 | 0.14 | 0.36 | 0.88 | 0.14 | 0.02 | 17 | |
| 23-JAN-91 | 45.0 | 2.6 | 94.2 | 9.3 | 100 | 4.50 | -1.60 | 17.5 | 1.00 | 416 | 107 | 0.20 | 0.03 | 0.13 | 0.32 | 0.54 | 1.10 | 0.05 | 0.01 | 34 | |
| 30-JAN-91 | 51.5 | 9.0 | 106.4 | 16.0 | 100 | 4.41 | -1.80 | 18.1 | 1.05 | 590 | 136 | 0.25 | 0.04 | 0.07 | 0.57 | 0.92 | 1.10 | 0.07 | 0.01 | 44 | |
| 05-FEB-91 | 39.7 | 4.8 | 90.5 | 16.9 | 100 | 5.51 | -1.40 | 16.3 | 1.05 | 462 | 128 | 0.21 | 0.04 | 0.12 | 0.24 | 0.40 | 0.90 | 0.04 | 0.01 | 27 | |
| 13-FEB-91 | 38.8 | 4.4 | 113.3 | 0.0 | 100 | | | | | | | | | | | | | | | | |
| 21-FEB-91 | 35.7 | 0.6 | 108.7 | 6.1 | 100 | 4.59 | -1.10 | 13.3 | 0.95 | 384 | 151 | 0.22 | 0.05 | 0.21 | 0.15 | 0.26 | 1.60 | 0.02 | 0.02 | 21 | |
| 20-FEB-91 | 49.0 | 3.6 | 143.1 | 10.5 | 100 | 4.55 | -1.40 | 14.4 | 0.83 | 400 | 116 | 0.18 | 0.04 | 0.13 | 0.07 | 0.13 | 1.20 | 0.04 | 0.03 | 34 | |
| 27-FEB-91 | 48.3 | 1.0 | 125.6 | 10.8 | 100 | 4.46 | -1.60 | 16.3 | 0.83 | 495 | 137 | 0.20 | 0.04 | 0.14 | 0.14 | 0.24 | 0.90 | 0.04 | 0.01 | 38 | |
| 04-MAR-91 | 49.3 | 2.3 | 153.8 | 8.1 | 100 | 4.70 | -1.00 | 11.5 | 0.55 | 339 | 122 | 0.12 | 0.03 | 0.11 | 0.21 | 0.37 | 0.80 | 0.06 | 0.01 | | |
| 08-MAR-91 | 32.7 | 1.2 | 93.5 | 2.6 | 100 | 4.59 | -1.20 | 12.6 | 0.65 | 350 | 110 | 0.12 | 0.02 | 0.09 | 0.06 | 0.14 | 1.10 | | | | |
| 13-MAR-91 | 44.7 | 1.6 | 158.4 | 18.7 | 100 | 4.70 | -0.99 | 10.3 | 0.50 | 290 | 95 | 0.12 | 0.03 | 0.11 | 0.10 | 0.20 | 1.10 | | | | |
| 19-MAR-91 | 31.5 | 10.8 | 108.0 | 42.6 | 100 | 4.84 | -0.70 | 7.7 | 0.40 | 224 | 112 | 0.07 | 0.02 | 0.10 | 0.09 | 0.18 | 0.60 | | | | |
| 21-MAR-91 | 29.3 | 4.2 | 88.9 | 8.7 | 100 | | | | | | | | | | | | | | | | |
| 25-MAR-91 | 31.7 | 1.5 | 108.0 | 3.5 | 100 | 4.85 | -0.61 | 7.7 | 0.53 | 204 | 135 | 0.22 | 0.05 | 0.21 | 0.15 | 0.26 | 1.60 | 0.02 | 0.02 | | |
| 28-MAR-91 | 26.5 | 4.9 | 87.9 | 22.4 | 100 | 5.12 | -0.33 | 5.0 | 0.23 | 492 | 142 | 0.06 | 0.08 | 0.02 | 0.10 | 0.19 | 0.90 | 0.04 | 0.01 | | |
| 02-APR-91 | 29.3 | 3.3 | 110.3 | 9.3 | 100 | 4.99 | -0.46 | 6.9 | 0.35 | 156 | 115 | 0.07 | 0.02 | 0.10 | 0.15 | 0.28 | 1.00 | | | | |
| 08-APR-91 | 14.0 | 2.0 | 50.7 | 18.5 | 100 | 4.95 | -0.46 | 6.9 | 0.35 | 156 | 115 | 0.07 | 0.02 | 0.10 | 0.15 | 0.28 | 1.00 | | | | |
| 11-APR-91 | 8.5 | 1.3 | 23.1 | 1.3 | 10 | | | | | | | | | | | | | | | | |
| 15-APR-91 | 0.0 | 0.0 | 0 | 0.0 | | | | | | | | | | | | | | | | | |
| 20-DEC-91 | 13.7 | 0.6 | 10.2 | 2.3 | 100 | 4.67 | -1.10 | 14.3 | 0.31 | 402 | 41 | 0.05 | 0.01 | 0.02 | 0.82 | 1.31 | 0.40 | 0.01 | 0.00 | 4 | |
| 08-JAN-92 | 11.8 | 1.6 | 23.1 | 5.3 | 100 | 4.53 | -1.50 | 15.5 | 0.90 | 476 | 123 | 0.14 | 0.04 | 0.23 | 0.18 | 0.38 | 1.50 | 0.07 | 0.03 | | |
| 17-JAN-92 | 4.7 | 4.6 | 100 | 4.53 | 100 | -1.40 | 14.4 | 1.00 | 476 | 128 | 0.12 | 0.03 | 0.12 | 0.10 | 0.21 | 0.80 | 0.04 | 0.02 | | | |
| 23-JAN-92 | 5.9 | 1.0 | 72.1 | 4.0 | 100 | 4.47 | -1.70 | 17.0 | 1.15 | 438 | 156 | 0.12 | 0.03 | 0.10 | 0.20 | 0.36 | 1.10 | 0.06 | 0.01 | 15 | |
| 30-JAN-92 | 3.3 | 2.3 | 23.1 | 1.00 | 4.40 | -2.20 | 19.1 | 1.45 | 530 | 180 | 0.17 | 0.04 | 0.11 | 0.10 | 0.20 | 1.70 | 0.04 | 0.02 | 0 | | |
| 06-FEB-92 | 43.3 | 0.8 | 79.7 | 7.4 | 100 | 4.38 | -2.30 | 22.6 | 1.75 | 637 | 310 | 0.21 | 0.04 | 0.19 | 0.09 | 0.21 | 1.30 | 0.03 | 0.03 | 6 | |
| 13-FEB-92 | 46.2 | 1.8 | 84.3 | 6.6 | 100 | 4.39 | -2.30 | 21.7 | 1.55 | 623 | 305 | 0.17 | 0.04 | 0.17 | 0.13 | 0.24 | 1.30 | 0.05 | 0.02 | 13 | |
| 20-FEB-92 | 50.7 | 2.3 | 108.7 | 6.1 | 100 | 4.45 | -1.80 | 19.2 | 1.35 | 532 | 260 | 0.19 | 0.04 | 0.13 | 0.10 | 0.20 | 1.30 | 0.08 | 0.02 | 4 | |
| 27-FEB-92 | 65.5 | 2.3 | 120.2 | 8.3 | 100 | 4.38 | -2.10 | 23.3 | 1.80 | 643 | 308 | 0.24 | 0.05 | 0.09 | 0.30 | 0.52 | 1.30 | 0.12 | 0.02 | 16 | |
| 04-MAR-92 | 64.2 | 4.7 | 115.3 | 4.6 | 100 | 4.57 | -1.20 | 18.0 | 1.73 | 430 | 210 | 0.26 | 0.06 | 0.22 | 0.10 | 0.22 | 1.90 | 0.13 | 0.03 | 12 | |
| 13-MAR-92 | 59.0 | 1.0 | 163.0 | 5.3 | 100 | 4.55 | -1.40 | 14.1 | 1.20 | 353 | 190 | 0.21 | 0.03 | 0.12 | 0.07 | 0.15 | 1.40 | 0.07 | 0.02 | 11 | |
| 19-MAR-92 | 52.2 | 3.0 | 139.3 | 9.5 | 100 | 4.59 | -1.10 | 14.5 | 1.80 | 370 | 209 | 0.22 | 0.06 | 0.11 | 0.06 | 0.14 | 2.60 | 0.14 | 0.03 | 8 | |
| 23-MAR-92 | 50.7 | 8.0 | 156.1 | 24.3 | 100 | 4.62 | -1.20 | 12.0 | 1.00 | 352 | 140 | 0.25 | 0.04 | 0.08 | 0.06 | 0.07 | 0.14 | 0.80 | 0.06 | 0.01 | 14 |
| 01-APR-92 | 51.8 | 13.2 | 176.0 | 6.6 | 100 | 4.69 | -1.00 | 9.0 | 0.75 | 261 | 176 | 0.08 | 0.02 | 0.06 | 0.08 | 0.18 | 0.30 | 0.06 | 0.01 | 10 | |
| 08-APR-92 | 39.3 | 0.3 | 145.4 | 6.9 | 100 | 4.87 | -0.67 | 6.3 | 0.40 | 224 | 186 | 0.04 | 0.01 | 0.04 | 0.12 | 0.27 | 0.30 | 0.04 | 0.01 | 13 | |
| 15-APR-92 | 36.5 | 3.8 | 134.0 | 16.0 | 100 | 5.17 | -0.30 | 5.8 | 0.35 | 220 | 193 | 0.05 | 0.01 | 0.04 | 0.04 | 0.14 | 0.20 | 0.02 | 0.01 | 13 | |
| 21-APR-92 | 27.7 | 3.3 | 98.0 | 11.2 | 100 | | | | | | | | | | | | | | | | |
| 22-APR-92 | 32.7 | 3.2 | 50.5 | 43.3 | 100 | | | | | | | | | | | | | | | | |
| 24-APR-92 | 22.7 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | | |
| 25-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | | |

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCST14

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | S.D. | % | CHEMICAL PARAMETERS | | | | | | | | | | | | | | |
|-------------|-----------------|------------------------|-------|------|---------------------|-------|------------|------------------|------------|----------------|-----------------|-----------|-----------|----------|-----------|-----------|------|------|--|
| | | | | | COVER | pH | ALK (mg/L) | COND25 (µmhos/L) | SO4 (mg/L) | Nitrate (µg/L) | Ammonium (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | | | |
| 22-JAN-88 | 3.6 | 78.9 | 32.1 | 100 | 4.58 | -1.50 | 16.3 | 1.35 | 425 | 160 | 0.30 | 0.10 | 0.06 | 0.16 | 0.16 | 0.16 | | | |
| 08-FEB-88 | 34.3 | 0.6 | 82.0 | 13.2 | 100 | 4.90 | -0.73 | 12.8 | 0.85 | 405 | 150 | 0.24 | 0.07 | 0.04 | 0.16 | | | | |
| 22-FEB-88 | 61.0 | 3.5 | 137.0 | 21.3 | 100 | 4.76 | -1.00 | 20.9 | 0.85 | 420 | 171 | 0.28 | 0.14 | 0.05 | -399.00 | | | | |
| 07-MAR-88 | 61.0 | 1.7 | 153.2 | 10.3 | 100 | 4.50 | -2.20 | 18.4 | 1.25 | 645 | 240 | 0.42 | 0.07 | 0.06 | 0.28 | | | | |
| 14-MAR-88 | 24.6 | 1.7 | 172.9 | 13.8 | 100 | 4.44 | -2.90 | 18.4 | 1.63 | 393 | 235 | 0.38 | 0.19 | 0.06 | 0.24 | | | | |
| 28-MAR-88 | 16.7 | 0.7 | 137.0 | 7.0 | 100 | 4.71 | -1.20 | 11.5 | 1.50 | 395 | 175 | 0.12 | 0.07 | 0.02 | 0.18 | | | | |
| 30-MAR-88 | 15.7 | 1.4 | 137.8 | 23.1 | 100 | 6.7 | 4.97 | -0.65 | 5.9 | 0.35 | 135 | 120 | 0.06 | 0.11 | 0.01 | 0.13 | | | |
| 05-APR-88 | 7.7 | 0.1 | 61.4 | 5.8 | 100 | 4.58 | 1.00 | 4.55 | -1.50 | 19.2 | 1.80 | 245 | 0.50 | 0.16 | 0.09 | 0.30 | | | |
| 07-APR-88 | 3.2 | 0.6 | 18.6 | 6.6 | 33 | 4.8 | 3.3 | 4.96 | -0.69 | 6.6 | 0.25 | 13.5 | 11.5 | 0.16 | 0.10 | 0.02 | 0.10 | | |
| 11-APR-88 | 3.7 | 0.6 | 17.8 | 4.8 | 100 | 4.66 | 1.00 | 4.55 | -1.50 | 19.2 | 1.80 | 245 | 0.50 | 0.16 | 0.09 | 0.30 | | | |
| 15-APR-88 | 1.9 | 1.3 | 4.8 | 6.6 | 7.5 | 4.66 | 1.00 | 4.67 | -1.00 | 11.7 | 0.30 | 290 | 160 | 0.24 | 0.05 | 0.03 | 0.25 | | |
| 10-JAN-89 | 19.7 | 2.1 | 34.6 | 6.6 | 100 | 4.56 | -1.30 | 17.0 | 1.40 | 485 | 265 | 0.38 | 0.09 | 0.07 | 0.23 | | | | |
| 24-JAN-89 | 32.3 | 3.5 | 62.9 | 6.4 | 100 | 4.56 | -1.30 | 14.8 | 1.65 | 500 | 295 | 0.42 | 0.19 | 0.10 | 0.24 | | | | |
| 07-FEB-89 | 36.0 | 3.5 | 86.5 | 22.3 | 100 | 4.56 | -1.20 | 14.8 | 1.65 | 500 | 295 | 0.42 | 0.19 | 0.10 | 0.24 | | | | |
| 21-FEB-89 | 60.0 | 4.4 | 96.5 | 11.3 | 100 | 4.55 | -1.50 | 19.2 | 1.80 | 539 | 245 | 0.50 | 0.16 | 0.09 | 0.30 | | | | |
| 07-MAR-89 | 63.0 | 1.0 | 139.3 | 16.3 | 100 | 4.42 | -1.90 | 22.6 | 1.70 | 632 | 250 | 0.46 | 0.14 | 0.09 | 0.30 | | | | |
| 16-MAR-89 | 55.7 | 2.5 | 97.7 | 21.7 | 100 | 4.46 | -1.50 | 18.3 | 1.35 | 550 | 225 | 0.34 | 0.10 | 0.07 | 0.31 | | | | |
| 20-MAR-89 | 76.3 | 1.5 | 147.7 | 4.6 | 100 | 4.46 | -1.50 | 18.3 | 1.35 | 550 | 225 | 0.34 | 0.10 | 0.07 | 0.31 | | | | |
| 28-MAR-89 | 49.0 | 1.0 | 130.1 | 22.5 | 100 | 4.80 | -0.79 | 13.6 | 1.00 | 455 | 185 | 0.36 | 0.23 | 0.10 | 0.24 | | | | |
| 31-MAR-89 | 37.3 | 0.6 | 69.0 | 26.5 | 100 | 4.56 | -1.20 | 14.8 | 1.65 | 500 | 295 | 0.42 | 0.19 | 0.10 | 0.24 | | | | |
| 03-APR-89 | 38.0 | 1.0 | 124.8 | 8.3 | 100 | 5.39 | 0.00 | 10.7 | 0.83 | 297 | 167 | 0.56 | 0.12 | 0.08 | 0.67 | | | | |
| 06-APR-89 | 39.7 | 4.6 | 113.8 | 21.9 | 100 | 5.08 | -0.48 | 8.9 | 0.65 | 257 | 205 | 0.32 | 0.07 | 0.04 | 0.12 | | | | |
| 10-APR-89 | 39.5 | 0.9 | 125.6 | 4.8 | 100 | 5.08 | -0.48 | 22.6 | 1.00 | 670 | 378 | 0.08 | 0.27 | 0.18 | 0.32 | | | | |
| 13-APR-89 | 53.3 | 3.5 | 145.4 | 22.6 | 100 | 5.98 | 0.53 | 6.9 | 0.30 | 200 | 130 | 0.18 | 0.05 | 0.02 | 0.13 | | | | |
| 18-APR-89 | 38.3 | 5.7 | 119.8 | 11.8 | 100 | 5.98 | 0.53 | 6.9 | 0.30 | 200 | 130 | 0.18 | | | | | | | |
| 20-APR-89 | 36.3 | 1.4 | 121.0 | 14.7 | 100 | 5.07 | -0.66 | 7.0 | 0.40 | 205 | 165 | 0.16 | 0.08 | 0.03 | 0.16 | | | | |
| 24-APR-89 | 32.0 | 5.0 | 106.5 | 20.0 | 100 | 5.07 | -0.66 | 7.0 | 0.40 | 205 | 165 | 0.16 | | | | | | | |
| 27-APR-89 | 22.0 | 3.6 | 72.8 | 19.1 | 100 | 5.07 | -0.66 | 7.0 | 0.40 | 205 | 165 | 0.16 | | | | | | | |
| 01-MAY-89 | 12.3 | 1.5 | 41.5 | 9.3 | 15 | 5.0 | -0.00 | 11.0 | 0.30 | 528 | 198 | 0.38 | 0.06 | 0.15 | 0.09 | 0.20 | 0.04 | 0.04 | |
| 02-MAY-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 5.0 | -0.00 | 11.0 | 0.30 | 491 | 220 | 0.41 | 0.08 | 0.20 | 0.14 | 0.28 | 1.10 | 0.04 | |
| 06-MAY-89 | 15.8 | 1.3 | 20.9 | 3.0 | 100 | 4.55 | -1.10 | 15.8 | 0.30 | 528 | 198 | 0.38 | 0.06 | 0.15 | 0.09 | 0.20 | 0.04 | 0.04 | |
| 13-DEC-89 | 18.7 | 1.4 | 16.3 | 2.6 | 100 | 4.52 | -1.00 | 16.8 | 1.10 | 491 | 220 | 0.41 | 0.08 | 0.20 | 0.14 | 0.28 | 1.10 | 0.04 | |
| 25-DEC-89 | 22.0 | 1.7 | 23.9 | 2.3 | 100 | 4.43 | -1.40 | 19.1 | 1.30 | 680 | 227 | 0.38 | 0.12 | 0.13 | 0.26 | 0.40 | 0.04 | 0.03 | |
| 28-DEC-89 | 25.0 | 1.0 | 31.6 | 4.8 | 100 | 4.52 | -1.20 | 21.3 | 1.35 | 734 | 144 | 0.31 | 0.14 | 0.24 | 0.37 | 0.69 | 1.30 | 0.03 | |
| 03-JAN-89 | 20.8 | 0.8 | 27.0 | 14.9 | 100 | 4.27 | -2.30 | 29.2 | 1.83 | 792 | 225 | 0.50 | 0.08 | 0.21 | 0.40 | 1.20 | 0.06 | 0.03 | |
| 10-JAN-89 | 22.5 | 0.5 | 47.6 | 13.2 | 100 | 3.60 | -1.00 | 115.8 | 1.45 | 3830 | 249 | 0.40 | 0.07 | 0.18 | 0.32 | 1.20 | 0.04 | 0.03 | |
| 17-JAN-89 | 31.3 | 2.9 | 67.5 | 2.3 | 100 | 4.41 | -2.50 | 23.9 | 2.00 | 670 | 378 | 0.08 | 0.27 | 0.18 | 0.32 | 1.20 | 0.03 | 0.03 | |
| 25-JAN-89 | 37.0 | 1.0 | 74.3 | 9.2 | 100 | 4.43 | -2.10 | 22.3 | 1.30 | 670 | 260 | 0.28 | 0.05 | 0.12 | 0.69 | 0.22 | 0.90 | 0.03 | |
| 31-JAN-89 | 33.3 | 2.5 | 85.0 | 8.1 | 100 | 4.45 | -1.70 | 21.3 | 1.35 | 610 | 310 | 0.06 | 0.14 | 0.09 | 0.26 | 1.50 | 0.05 | 0.03 | |
| 01-FEB-90 | 35.0 | 2.0 | 85.0 | 6.6 | 100 | 4.57 | -1.40 | 17.5 | 1.05 | 520 | 266 | 0.23 | 0.03 | 0.15 | 0.69 | 0.20 | 0.90 | 0.03 | |
| 14-FEB-90 | 28.7 | 2.5 | 83.0 | 5.3 | 100 | 4.63 | -1.40 | 15.4 | 0.35 | 478 | 237 | 0.24 | 0.03 | 0.14 | 0.69 | 0.19 | 0.70 | 0.02 | |
| 21-FEB-90 | 32.0 | 2.6 | 79.7 | 4.8 | 100 | 4.58 | -1.40 | 17.1 | 1.10 | 569 | 227 | 0.29 | 0.06 | 0.17 | 0.69 | 1.10 | 0.05 | 0.02 | |
| 28-FEB-90 | 38.5 | 0.5 | 93.7 | 6.6 | 100 | 4.57 | -1.40 | 14.6 | 1.10 | 396 | 189 | 0.16 | 0.03 | 0.12 | 0.69 | 1.30 | 0.05 | 0.02 | |
| 07-MAR-90 | 36.0 | 5.3 | 76.6 | 20.6 | 100 | 4.58 | -1.50 | 17.3 | 1.05 | 492 | 218 | 0.24 | 0.03 | 0.15 | 0.13 | 0.22 | 1.00 | 0.04 | |
| 12-MAR-90 | 34.3 | 2.1 | 104.2 | 6.4 | 100 | 4.85 | -0.67 | 9.2 | 0.45 | 344 | 220 | 0.10 | 0.02 | 0.12 | 0.07 | 0.19 | 0.80 | 0.05 | |
| 15-MAR-90 | 19.0 | 1.0 | 61.4 | 13.0 | 100 | 4.85 | -0.67 | 8.2 | 0.35 | 293 | 195 | 0.08 | 0.02 | 0.15 | 0.09 | 0.20 | 0.80 | 0.07 | |
| 21-MAR-90 | 18.8 | 0.8 | 33.8 | 11.8 | 73 | 4.88 | -0.78 | 8.2 | 0.35 | 293 | 195 | 0.08 | 0.02 | 0.15 | 0.09 | 0.20 | 0.80 | 0.07 | |
| 28-MAR-90 | 16.8 | 1.8 | 38.4 | 6.6 | 73 | | | | | | | | | | | | | | |

Table 2 (cont'd)

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE | | COVER S.D. (mm) | PH | AIR CONC25 (mg/L) | SO4 CONC25 (mg/L) | CHEMICAL PARAMETERS | | | | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | | | | | |
|-------------|-----------------|-------------------|-------|-----------------|------|-------------------|-------------------|---------------------|------------|-----------|----------|------------|-----------|-----------|-----------|------|------|------|------|----|
| | | MEAN | S.D. | | | | | Ca (mg/L) | NH4 (ug/L) | Na (mg/L) | K (mg/L) | | | | | | | | | |
| 04-APR-90 | 12.2 | 0.3 | 33.8 | 10.8 | 5.0 | | | | | | | | | | | | | | | |
| 12-APR-90 | 9.0 | 1.7 | 20.9 | 6.6 | 2.4 | | | | | | | | | | | | | | | |
| 18-APR-90 | 8.5 | 1.0 | 17.0 | 6.9 | 2.3 | | | | | | | | | | | | | | | |
| 19-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.68 | -1.00 | 13.8 | 0.65 | 296 | 88 | 0.19 | 0.03 | 0.69 | 1.05 | 0.50 | 0.04 | 0.01 | 36 | |
| 12-DEC-90 | 12.7 | 0.6 | 27.0 | 1.3 | 1.00 | | | | | | | | | | | | | | | |
| 19-DEC-90 | 14.2 | 2.6 | 100 | 4.4 | 1.00 | 4.62 | -1.30 | 12.1 | 0.75 | 306 | 138 | 0.38 | 0.06 | 0.11 | 0.21 | 0.36 | 0.03 | 0.02 | 27 | |
| 04-JAN-91 | 19.3 | 1.5 | 41.5 | 7.4 | 1.00 | 4.62 | -1.30 | 12.1 | 0.75 | 306 | 90 | 0.17 | 0.03 | 0.11 | 0.20 | 1.30 | 0.09 | 0.02 | 62 | |
| 09-JAN-91 | 26.7 | 2.3 | 59.8 | 4.8 | 1.00 | 4.62 | -1.30 | 12.3 | 0.60 | 330 | 74 | 0.16 | 0.04 | 0.15 | 0.22 | 1.60 | 0.04 | 0.02 | 33 | |
| 16-JAN-91 | 30.3 | 1.2 | 83.5 | 15.0 | 1.00 | 4.55 | -1.30 | 13.2 | 0.65 | 377 | 105 | 0.13 | 0.03 | 0.07 | 0.09 | 0.13 | 0.04 | 0.01 | 34 | |
| 23-JAN-91 | 36.2 | 1.8 | 88.1 | 1.00 | 4.25 | -2.70 | 27.2 | 1.50 | 743 | 137 | 0.29 | 0.05 | 0.15 | 0.14 | 0.21 | 1.20 | 0.04 | 0.02 | 24 | |
| 30-JAN-91 | 45.2 | 1.3 | 104.9 | 5.8 | 1.00 | 4.47 | -1.60 | 20.2 | 1.25 | 347 | 43 | 0.33 | 0.06 | 0.10 | 0.49 | 0.77 | 0.09 | 0.02 | 50 | |
| 03-FEB-91 | 36.5 | 0.5 | 10.9 | 2.3 | 1.00 | 4.47 | -1.70 | 17.7 | 1.25 | 499 | 43 | 0.25 | 0.03 | 0.11 | 0.22 | 0.80 | 0.04 | 0.02 | | |
| 08-FEB-91 | 32.0 | 0.9 | 101.1 | 4.8 | 1.00 | 4.55 | -1.30 | 12.4 | 0.85 | 361 | 123 | 0.16 | 0.03 | 0.07 | 0.09 | 0.16 | 0.03 | 0.01 | 22 | |
| 13-FEB-91 | 32.0 | 0.9 | 97.3 | 6.1 | 1.00 | 4.52 | -1.30 | 16.2 | 1.05 | 448 | 113 | 0.21 | 0.04 | 0.08 | 0.08 | 0.16 | 0.07 | 0.01 | 46 | |
| 20-FEB-91 | 39.3 | 2.5 | 117.9 | 2.3 | 1.00 | 4.52 | -1.30 | 15.0 | 0.80 | 434 | 123 | 0.18 | 0.04 | 0.06 | 0.10 | 0.17 | 0.06 | 0.01 | | |
| 27-FEB-91 | 35.8 | 0.8 | 101.5 | 1.8 | 1.00 | 4.48 | -1.60 | 1.00 | 0.50 | 216 | 118 | 0.10 | 0.03 | 0.07 | 0.25 | 0.42 | 1.60 | 0.05 | 0.01 | 34 |
| 04-MAR-91 | 34.3 | 2.1 | 122.5 | 2.3 | 1.00 | 4.69 | -1.00 | 11.5 | 0.50 | 316 | 126 | 0.11 | 0.03 | 0.07 | 0.25 | 0.42 | 1.60 | | | |
| 08-MAR-91 | 31.7 | 0.6 | 114.9 | 1.3 | 1.00 | 4.73 | -0.90 | 10.3 | 0.50 | 315 | 126 | 0.11 | 0.03 | 0.17 | 0.33 | 0.46 | 1.60 | | | |
| 13-MAR-91 | 30.0 | 0.8 | 89.6 | 31.6 | 1.00 | 4.69 | -1.00 | 10.4 | 0.45 | 290 | 95 | 0.09 | 0.03 | 0.07 | 0.14 | 0.23 | 1.00 | | | |
| 19-MAR-91 | 28.8 | 2.6 | 109.3 | 11.8 | 1.00 | 4.85 | -0.65 | 7.0 | 0.25 | 216 | 99 | 0.09 | 0.04 | 0.01 | 0.04 | 0.17 | 0.09 | | | |
| 21-MAR-91 | 29.3 | 1.5 | 108.0 | 7.4 | 1.00 | 4.85 | -0.65 | 8.7 | 0.45 | 230 | 126 | 0.27 | 0.06 | 0.18 | 0.33 | 0.44 | 0.50 | | | |
| 25-MAR-91 | 30.5 | 0.9 | 109.5 | 11.3 | 1.00 | 4.85 | -0.69 | 5.4 | 0.45 | 151 | 98 | 0.07 | 0.02 | 0.08 | 0.20 | 0.33 | 0.80 | | | |
| 28-MAR-91 | 14.8 | 1.0 | 55.2 | 5.0 | 1.00 | 5.09 | -0.49 | 5.4 | 0.45 | 460 | 145 | 0.18 | 0.03 | 0.11 | 0.19 | 0.35 | 0.60 | | | |
| 02-APR-91 | 19.3 | 2.5 | 72.8 | 1.3 | 1.00 | 4.94 | -0.59 | 7.2 | 0.35 | 165 | 106 | 0.07 | 0.02 | 0.06 | 0.13 | 0.22 | 0.90 | | | |
| 08-APR-91 | 4.3 | 1.5 | 19.3 | 6.9 | 2.5 | 4.73 | -0.50 | 10.3 | 0.50 | 315 | 126 | 0.11 | 0.03 | 0.03 | 0.16 | 1.10 | | | | |
| 11-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.57 | -1.30 | 10.9 | 0.34 | 390 | 51 | 0.03 | 0.01 | 0.03 | 0.18 | 0.33 | 0.40 | 0.01 | 0.00 | 3 |
| 20-DEC-91 | 13.5 | 0.5 | 11.7 | 1.3 | 1.00 | 4.41 | -1.90 | 19.5 | 1.25 | 488 | 111 | 0.19 | 0.03 | 0.08 | 0.34 | 0.63 | 0.70 | 0.06 | 0.02 | |
| 06-JAN-92 | 9.5 | 0.5 | 10.9 | 1.3 | 1.00 | 4.41 | -1.60 | 15.2 | 1.25 | 341 | 90 | 0.18 | 0.03 | 0.06 | 0.08 | 0.19 | 0.06 | 0.02 | 13 | |
| 17-JAN-92 | 26.7 | 1.5 | 46.8 | 6.4 | 1.00 | 4.43 | -2.10 | 20.5 | 1.65 | 494 | 162 | 0.27 | 0.06 | 0.18 | 0.53 | 0.90 | 1.10 | 0.08 | 0.02 | |
| 23-JAN-92 | 26.7 | 2.5 | 65.9 | 1.3 | 1.00 | 4.42 | -2.10 | 19.4 | 1.45 | 460 | 145 | 0.18 | 0.03 | 0.11 | 0.19 | 0.35 | 0.60 | 0.03 | 0.02 | 20 |
| 30-JAN-92 | 33.3 | 0.6 | 61.4 | 3.5 | 1.00 | 4.41 | -2.00 | 20.7 | 1.65 | 546 | 205 | 0.20 | 0.04 | 0.18 | 0.12 | 0.24 | 1.10 | 0.07 | 0.02 | 16 |
| 06-FEB-92 | 35.7 | 0.6 | 69.0 | 3.5 | 1.00 | 4.41 | -2.00 | 16.5 | 1.65 | 546 | 205 | 0.20 | 0.04 | 0.18 | 0.12 | 0.24 | 1.10 | 0.07 | 0.02 | |
| 13-FEB-92 | 37.8 | 1.0 | 82.8 | 2.6 | 1.00 | 4.39 | -2.60 | 23.1 | 1.80 | 590 | 233 | 0.24 | 0.04 | 0.12 | 0.21 | 0.38 | 1.00 | 0.08 | 0.02 | 11 |
| 20-FEB-92 | 43.1 | 4.0 | 88.9 | 7.0 | 1.00 | 4.41 | -2.60 | 24.5 | 1.73 | 335 | 281 | 0.24 | 0.05 | 0.16 | 0.14 | 0.28 | 1.20 | 0.06 | 0.02 | |
| 27-FEB-92 | 54.3 | 3.4 | 98.8 | 11.3 | 1.00 | 4.31 | -2.30 | 23.3 | 1.93 | 384 | 234 | 0.22 | 0.04 | 0.12 | 0.13 | 0.29 | 1.00 | 0.04 | 0.01 | 4 |
| 04-MAR-92 | 61.3 | 1.5 | 117.1 | 18.5 | 1.00 | 4.41 | -1.90 | 19.4 | 1.65 | 520 | 250 | 0.20 | 0.04 | 0.14 | 0.11 | 0.23 | 0.80 | 0.06 | 0.02 | |
| 13-MAR-92 | 47.0 | 2.0 | 113.3 | 2.3 | 1.00 | 4.78 | -0.76 | 10.4 | 0.90 | 240 | 150 | 0.06 | 0.01 | 0.07 | 0.12 | 0.70 | 0.08 | 0.01 | 4 | |
| 19-MAR-92 | 46.5 | 0.5 | 134.7 | 8.7 | 1.00 | 4.61 | -1.30 | 11.4 | 1.10 | 336 | 211 | 0.12 | 0.03 | 0.18 | 0.07 | 0.16 | 1.40 | 0.06 | 0.01 | 6 |
| 25-MAR-92 | 45.8 | 2.0 | 145.4 | 4.0 | 1.00 | 4.57 | -1.30 | 13.6 | 1.25 | 413 | 253 | 0.15 | 0.03 | 0.18 | 0.08 | 0.19 | 0.80 | 0.13 | 0.01 | |
| 01-APR-92 | 39.0 | 1.0 | 128.6 | 3.5 | 1.00 | 4.70 | -0.94 | 10.5 | 0.90 | 312 | 205 | 0.14 | 0.03 | 0.15 | 0.22 | 0.42 | 1.20 | 0.08 | 0.01 | 24 |
| 08-APR-92 | 38.3 | 0.3 | 136.3 | 2.3 | 1.00 | 4.73 | -0.96 | 8.4 | 0.60 | 278 | 196 | 0.00 | 0.01 | 0.14 | 0.08 | 0.60 | 0.08 | 0.01 | 4 | |
| 15-APR-92 | 37.8 | 1.9 | 126.3 | 10.8 | 1.00 | 4.59 | -0.45 | 6.1 | 0.40 | 204 | 163 | 0.05 | 0.01 | 0.14 | 0.40 | 0.60 | 0.02 | 0.01 | 12 | |
| 21-APR-92 | 20.2 | 1.0 | 75.9 | 5.8 | 1.00 | 4.78 | -0.45 | 6.1 | 0.40 | 204 | 163 | 0.05 | 0.01 | 0.14 | 0.40 | 0.60 | 0.02 | 0.01 | | |
| 24-APR-92 | 9.0 | 1.0 | 17.8 | 2.6 | 1.00 | 4.57 | -0.45 | 6.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | |

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCST16

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | | % | COVER | PH | ALK (mg/L) | CHEMICAL PARAMETERS | | | | |
|-------------|-----------------|------------------------|-----------|------|-------|------|------------|---------------------|-----------|----------|-----------|-----------|
| | | MEAN S.D. | MEAN S.D. | | | | | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) |
| 22-JAN-88 | 29.2 | 3.4 | 72.1 | 18.2 | 100 | 4.56 | -1.60 | 18.8 | 1.50 | 510 | 130 | 0.48 |
| 08-FEB-88 | 27.7 | 3.4 | 54.5 | 11.3 | 100 | 4.64 | -1.24 | 14.6 | 1.00 | 385 | 170 | 0.26 |
| 22-FEB-88 | 56.8 | 8.3 | 119.4 | 16.1 | 100 | 4.42 | -2.10 | 20.5 | 1.10 | 560 | 150 | 0.28 |
| 07-MAR-88 | 54.3 | 6.4 | 140.8 | 24.3 | 100 | 4.44 | -2.20 | 19.5 | 1.35 | 595 | 205 | 0.50 |
| 14-MAR-88 | 2.2 | | 21.9 | 100 | | 4.44 | -2.40 | 21.5 | 1.35 | 630 | 230 | 0.36 |
| 28-MAR-88 | 13.8 | 4.3 | 103.0 | 35.1 | 100 | 4.76 | -1.00 | 10.9 | 0.50 | 305 | 150 | 0.14 |
| 30-MAR-88 | 10.9 | 2.6 | 88.9 | 20.7 | 100 | 4.50 | | | | | 0.15 | 0.03 |
| 05-APR-88 | 3.8 | 0.6 | 27.0 | 12.6 | 33 | 4.77 | -0.86 | 8.5 | 0.35 | 135 | 110 | 0.10 |
| 07-APR-88 | 2.7 | 0.3 | 17.0 | 4.0 | 10 | | | | | | 0.22 | 0.02 |
| 08-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.21 |
| 10-JAN-89 | 22.7 | 1.5 | 41.5 | 11.5 | 100 | 4.72 | -0.95 | 11.0 | 0.85 | 235 | 140 | 0.24 |
| 24-JAN-89 | 30.0 | 5.3 | 53.7 | 6.9 | 100 | 4.48 | -1.60 | 21.2 | 1.85 | 595 | 285 | 0.56 |
| 07-FEB-89 | 31.3 | 5.5 | 54.5 | 18.7 | 100 | 4.39 | -1.80 | 25.7 | 2.50 | 635 | 325 | 0.66 |
| 21-FEB-89 | 51.3 | 6.7 | 99.6 | 10.0 | 100 | 4.54 | -1.50 | 22.0 | 2.15 | 668 | 290 | 0.68 |
| 01-MAR-89 | 54.3 | 1.5 | 103.4 | 4.8 | 100 | 4.30 | -2.20 | 24.0 | 2.05 | 578 | 272 | 0.48 |
| 16-MAR-89 | 39.0 | 1.7 | 82.0 | 22.6 | 100 | 4.48 | -1.60 | 17.9 | 1.30 | 245 | 136 | 0.07 |
| 20-MAR-89 | 59.7 | 1.2 | 130.9 | 3.5 | 100 | 4.68 | -1.10 | 14.0 | 0.85 | 435 | 235 | 0.22 |
| 28-MAR-89 | 32.3 | 1.2 | 108.7 | 51.8 | 100 | 4.68 | -1.10 | 14.0 | 0.85 | | | 0.07 |
| 31-MAR-89 | 32.3 | 2.3 | 88.1 | 10.0 | 100 | 4.89 | -0.67 | 10.1 | 0.70 | 248 | 170 | 0.18 |
| 03-APR-89 | 35.0 | 2.0 | 111.8 | 21.7 | 100 | 4.89 | -0.67 | 10.1 | 0.70 | | | 0.20 |
| 06-APR-89 | 24.8 | 4.9 | 61.4 | 11.8 | 100 | 4.76 | | | | | | 0.03 |
| 10-APR-89 | 27.2 | 2.8 | 78.2 | 5.3 | 100 | 4.97 | -0.36 | 9.0 | 0.50 | 223 | 187 | 0.16 |
| 13-APR-89 | 42.2 | 0.6 | 110.3 | 12.6 | 100 | 4.80 | -0.72 | 11.7 | 0.80 | 335 | 190 | 0.30 |
| 18-APR-89 | 30.3 | 0.6 | 93.8 | 10.8 | 100 | 4.83 | -0.72 | 11.7 | 0.80 | | | 0.17 |
| 20-APR-89 | 28.7 | 2.5 | 93.8 | 13.5 | 100 | 4.77 | -1.80 | 24.5 | 1.15 | 724 | 183 | 0.44 |
| 24-APR-89 | 16.3 | 4.0 | 41.5 | 20.0 | 100 | 4.89 | -0.70 | 7.1 | 0.30 | 155 | 140 | 0.08 |
| 27-APR-89 | 13.7 | 2.5 | 40.0 | 7.9 | 100 | 4.89 | -0.70 | 7.1 | 0.30 | | | 0.08 |
| 28-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.02 |
| 6-DEC-89 | 22.3 | 1.5 | 45.3 | 13.4 | 100 | 4.04 | -3.70 | 35.6 | 1.10 | 216 | 41 | 0.07 |
| 3-DEC-89 | 21.7 | 0.6 | 19.3 | 6.1 | 100 | 4.22 | -2.30 | 29.5 | 1.20 | 210 | 45 | 0.08 |
| 20-DEC-89 | 26.0 | 4.6 | 29.3 | 3.5 | 100 | 3.96 | -4.60 | 44.4 | 1.25 | 1400 | 268 | 0.10 |
| 28-DEC-89 | 30.7 | 2.3 | 31.6 | 1.3 | 100 | 4.37 | -1.80 | 24.5 | 1.15 | 724 | 183 | 0.11 |
| 03-JAN-90 | 27.2 | 3.0 | 41.5 | 16.9 | 100 | 4.39 | -1.70 | 23.6 | 1.45 | 666 | 193 | 0.07 |
| 10-JAN-90 | 28.3 | 2.3 | 50.7 | 4.8 | 100 | 4.43 | -2.30 | 24.4 | 1.65 | 740 | 288 | 0.13 |
| 17-JAN-90 | 35.3 | 4.2 | 91.9 | 23.1 | 100 | 4.33 | -2.70 | 28.2 | 2.15 | 760 | 361 | 0.44 |
| 25-JAN-90 | 41.8 | 2.8 | 87.3 | 3.5 | 100 | 4.52 | -1.60 | 18.9 | 1.10 | 574 | 230 | 0.24 |
| 31-JAN-90 | 37.0 | 2.0 | 91.2 | 11.5 | 100 | 4.55 | -1.60 | 18.0 | 1.10 | 560 | 250 | 0.27 |
| 07-FEB-90 | 42.0 | 1.0 | 88.6 | 3.5 | 100 | 4.58 | -1.40 | 16.3 | 1.05 | 485 | 260 | 0.17 |
| 14-FEB-90 | 36.3 | 2.5 | 93.7 | 7.4 | 100 | 4.71 | -1.10 | 14.6 | 0.95 | 479 | 298 | 0.23 |
| 21-FEB-90 | 41.3 | 1.5 | 111.8 | 30.3 | 100 | 4.66 | -1.70 | 15.3 | 0.90 | 514 | 275 | 0.03 |
| 28-FEB-90 | 52.7 | 2.1 | 111.0 | 10.0 | 100 | 4.58 | -1.40 | 16.2 | 0.95 | 493 | 234 | 0.15 |
| 07-MAR-90 | 49.2 | 1.0 | 130.1 | 3.5 | 100 | 4.51 | -1.70 | 19.3 | 1.35 | 580 | 248 | 0.34 |
| 12-MAR-90 | 41.0 | 1.0 | 110.3 | 5.8 | 100 | 4.97 | -0.54 | 9.1 | 0.45 | 344 | 225 | 0.07 |
| 15-MAR-90 | 24.3 | 3.2 | 77.4 | 9.5 | 100 | 4.77 | -0.54 | 9.1 | 0.45 | 344 | 225 | 0.04 |
| 21-MAR-90 | 12.7 | 0.3 | 30.8 | 2.3 | 100 | 4.90 | -0.68 | 8.8 | 0.40 | 330 | 217 | 0.09 |
| 28-MAR-90 | 10.3 | 0.6 | 14.7 | 2.3 | 100 | 4.00 | 0.0 | 0.0 | 0.0 | | | 0.02 |
| 04-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.05 |
| 12-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.02 |

| | | | | | | | | | | | | |
|-----------|------|------|-------|------|------|-------|-------|------|------|------|------|------|
| 22-JAN-88 | 3.4 | 72.1 | 18.2 | 100 | 4.56 | -1.60 | 18.8 | 1.50 | 510 | 130 | 0.48 | 0.16 |
| 08-FEB-88 | 27.7 | 3.4 | 54.5 | 11.3 | 100 | 4.64 | -1.24 | 14.6 | 1.00 | 385 | 170 | 0.26 |
| 22-FEB-88 | 56.8 | 8.3 | 119.4 | 16.1 | 100 | 4.42 | -2.10 | 20.5 | 1.10 | 560 | 150 | 0.28 |
| 07-MAR-88 | 54.3 | 6.4 | 140.8 | 24.3 | 100 | 4.44 | -2.20 | 19.5 | 1.35 | 595 | 205 | 0.50 |
| 14-MAR-88 | 2.2 | | 147.7 | 21.9 | 100 | 4.44 | -2.40 | 21.5 | 1.35 | 630 | 230 | 0.36 |
| 28-MAR-88 | 13.8 | 4.3 | 110.3 | 35.1 | 100 | 4.76 | -1.00 | 10.9 | 0.50 | 305 | 150 | 0.14 |
| 30-MAR-88 | 10.9 | 2.6 | 88.9 | 20.7 | 100 | 4.50 | | | | | 0.15 | 0.03 |
| 05-APR-88 | 3.8 | 0.6 | 27.0 | 12.6 | 33 | 4.77 | -0.86 | 8.5 | 0.35 | 135 | 110 | 0.10 |
| 07-APR-88 | 2.7 | 0.3 | 17.0 | 4.0 | 10 | | | | | | 0.22 | 0.02 |
| 08-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.21 |
| 10-JAN-89 | 22.7 | 1.5 | 41.5 | 11.5 | 100 | 4.72 | -0.95 | 11.0 | 0.85 | 235 | 140 | 0.24 |
| 24-JAN-89 | 30.0 | 5.3 | 53.7 | 6.9 | 100 | 4.48 | -1.60 | 21.2 | 1.85 | 595 | 285 | 0.56 |
| 07-FEB-89 | 31.3 | 5.5 | 54.5 | 18.7 | 100 | 4.39 | -1.80 | 25.7 | 2.50 | 635 | 325 | 0.66 |
| 21-FEB-89 | 51.3 | 6.7 | 99.6 | 10.0 | 100 | 4.54 | -1.50 | 22.0 | 2.15 | 668 | 290 | 0.23 |
| 01-MAR-89 | 54.3 | 1.5 | 103.4 | 4.8 | 100 | 4.30 | -2.20 | 24.0 | 2.05 | 578 | 272 | 0.48 |
| 16-MAR-89 | 39.0 | 1.7 | 82.0 | 22.6 | 100 | 4.48 | -1.60 | 17.9 | 1.30 | 245 | 136 | 0.07 |
| 20-MAR-89 | 59.7 | 1.2 | 130.9 | 3.5 | 100 | 4.68 | -1.10 | 14.0 | 0.85 | 435 | 235 | 0.22 |
| 28-MAR-89 | 32.3 | 1.2 | 108.7 | 51.8 | 100 | 4.68 | -1.10 | 14.0 | 0.85 | | | 0.07 |
| 31-MAR-89 | 32.3 | 2.3 | 88.1 | 10.0 | 100 | 4.89 | -0.67 | 10.1 | 0.70 | 248 | 170 | 0.18 |
| 03-APR-89 | 35.0 | 2.0 | 111.8 | 21.7 | 100 | 4.89 | -0.67 | 10.1 | 0.70 | | | 0.20 |
| 06-APR-89 | 24.8 | 4.9 | 61.4 | 11.8 | 100 | 4.76 | | | | | | 0.03 |
| 10-APR-89 | 27.2 | 2.8 | 78.2 | 5.3 | 100 | 4.97 | -0.36 | 9.0 | 0.50 | 223 | 187 | 0.16 |
| 13-APR-89 | 42.2 | 0.6 | 110.3 | 12.6 | 100 | 4.80 | -0.72 | 11.7 | 0.80 | 335 | 190 | 0.30 |
| 18-APR-89 | 30.3 | 0.6 | 93.8 | 10.8 | 100 | 4.83 | -0.72 | 11.7 | 0.80 | | | 0.17 |
| 20-APR-89 | 28.7 | 2.5 | 93.8 | 13.5 | 100 | 4.77 | -1.80 | 24.5 | 1.15 | 724 | 183 | 0.44 |
| 24-APR-89 | 16.3 | 4.0 | 41.5 | 20.0 | 100 | 4.89 | -0.70 | 7.1 | 0.30 | 155 | 140 | 0.08 |
| 27-APR-89 | 13.7 | 2.5 | 40.0 | 7.9 | 100 | 4.89 | -0.70 | 7.1 | 0.30 | | | 0.08 |
| 28-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.02 |
| 6-DEC-89 | 22.3 | 1.5 | 45.3 | 13.4 | 100 | 4.04 | -3.70 | 35.6 | 1.10 | 216 | 41 | 0.07 |
| 3-DEC-89 | 21.7 | 0.6 | 19.3 | 6.1 | 100 | 4.22 | -2.30 | 29.5 | 1.20 | 210 | 45 | 0.08 |
| 20-DEC-89 | 26.0 | 4.6 | 29.3 | 3.5 | 100 | 3.96 | -4.60 | 44.4 | 1.25 | 1400 | 268 | 0.10 |
| 28-DEC-89 | 30.7 | 2.3 | 31.6 | 1.3 | 100 | 4.37 | -1.80 | 24.5 | 1.15 | 724 | 183 | 0.11 |
| 03-JAN-90 | 27.2 | 3.0 | 41.5 | 16.9 | 100 | 4.39 | -1.70 | 23.6 | 1.45 | 666 | 193 | 0.07 |
| 10-JAN-90 | 28.3 | 2.3 | 50.7 | 4.8 | 100 | 4.43 | -2.30 | 24.4 | 1.65 | 740 | 288 | 0.13 |
| 17-JAN-90 | 35.3 | 4.2 | 91.9 | 23.1 | 100 | 4.33 | -2.70 | 28.2 | 2.15 | 760 | 361 | 0.44 |
| 25-JAN-90 | 41.8 | 2.8 | 87.3 | 3.5 | 100 | 4.52 | -1.60 | 18.9 | 1.10 | 574 | 230 | 0.24 |
| 31-JAN-90 | 37.0 | 2.0 | 91.2 | 11.5 | 100 | 4.55 | -1.60 | 18.0 | 1.10 | 560 | 250 | 0.27 |
| 07-FEB-90 | 42.0 | 1.0 | 88.6 | 3.5 | 100 | 4.58 | -1.40 | 16.3 | 1.05 | 485 | 260 | 0.17 |
| 14-FEB-90 | 36.3 | 2.5 | 93.7 | 7.4 | 100 | 4.71 | -1.10 | 14.6 | 0.95 | 479 | 298 | 0.23 |
| 21-FEB-90 | 41.3 | 1.5 | 111.8 | 30.3 | 100 | 4.66 | -1.70 | 15.3 | 0.90 | 514 | 275 | 0.03 |
| 28-FEB-90 | 52.7 | 2.1 | 111.0 | 10.0 | 100 | 4.58 | -1.40 | 16.2 | 0.95 | 493 | 234 | 0.15 |
| 07-MAR-90 | 49.2 | 1.0 | 130.1 | 3.5 | 100 | 4.51 | -1.70 | 19.3 | 1.35 | 580 | 248 | 0.34 |
| 12-MAR-90 | 41.0 | 1.0 | 110.3 | 5.8 | 100 | 4.97 | -0.54 | 9.1 | 0.45 | 344 | 225 | 0.07 |
| 15-MAR-90 | 24.3 | 3.2 | 77.4 | 9.5 | 100 | 4.77 | -0.54 | 9.1 | 0.45 | 344 | 225 | 0.04 |
| 21-MAR-90 | 12.7 | 0.3 | 30.8 | 2.3 | 100 | 4.90 | -0.68 | 8.8 | 0.40 | 330 | 217 | 0.09 |
| 28-MAR-90 | 10.3 | 0.6 | 14.7 | 2.3 | 100 | 4.00 | 0.0 | 0.0 | 0.0 | | | 0.02 |
| 04-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.05 |
| 12-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | 0.02 |

| | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22-JAN-88 | 3.4 | 72.1 | 18.2 | 100 | 4.56 | -1.60 | 18.8 | 1.50 | 510 | 130 | 0.48 | 0.16 |

<tbl_r

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | MEAN S.D. | COVER (mm) | CHEMICAL PARAMETERS | | | | | | | | | | | | | | | | |
|-------------|-----------------|------------------------|-----------|------------|---------------------|------------|-----------------|------------|----------------|-----------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|-----------|------|---|
| | | | | | PH | AIR (mg/L) | Con235 (nmol/L) | SO4 (mg/L) | Nitrate (µg/L) | Ammonium (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | | |
| 12-DEC-90 | 17.2 | 0.8 | 32.3 | 2.6 | 100 | 4.55 | -1.40 | 14.1 | 0.75 | 413 | 128 | 0.24 | 0.05 | 0.11 | 0.15 | 0.47 | 0.50 | 0.02 | 0.01 | 20 | |
| 19-DEC-90 | 20.0 | 1.0 | 47.6 | 7.0 | 100 | 4.32 | -1.40 | 16.0 | 1.10 | 412 | 119 | 0.24 | 0.05 | 0.11 | 0.15 | 0.26 | 0.80 | 0.02 | 0.03 | 21 | |
| 04-JAN-91 | 23.3 | 1.5 | 49.9 | 8.1 | 100 | 4.35 | -1.40 | 12.0 | 0.75 | 306 | 93 | 0.16 | 0.03 | 0.19 | 0.06 | 0.13 | 1.20 | 0.07 | 0.03 | 48 | |
| 09-JAN-91 | 30.3 | 3.8 | 63.2 | 14.4 | 100 | 4.47 | -1.40 | 16.2 | 0.60 | 473 | 84 | 0.13 | 0.03 | 0.09 | 0.10 | 0.17 | 0.50 | 0.04 | 0.02 | 29 | |
| 16-JAN-91 | 41.3 | 5.9 | 86.6 | 9.3 | 100 | 4.30 | -1.30 | 13.7 | 0.75 | 384 | 91 | 0.14 | 0.03 | 0.10 | 0.06 | 0.08 | 0.70 | 0.03 | 0.02 | 22 | |
| 23-JAN-91 | 42.6 | 2.9 | 42.0 | 3.2 | 100 | 4.30 | -1.80 | 16.5 | 1.05 | 534 | 116 | 0.21 | 0.04 | 0.13 | 0.07 | 0.14 | 1.10 | 0.03 | 0.03 | 23 | |
| 30-JAN-91 | 49.3 | 0.6 | 110.3 | 7.0 | 100 | 4.51 | -1.30 | 16.5 | 1.05 | 485 | 124 | 0.25 | 0.04 | 0.10 | 0.12 | 0.22 | 0.70 | 0.04 | 0.02 | 32 | |
| 05-FEB-91 | 37.3 | 0.8 | 111.8 | 1.3 | 100 | 4.50 | -1.30 | 15.2 | 1.05 | 428 | 119 | 0.21 | 0.04 | 0.12 | 0.11 | 0.20 | 0.80 | 0.04 | 0.02 | 30 | |
| 08-FEB-91 | 30.7 | 1.3 | 99.6 | 2.3 | 100 | 4.33 | -1.30 | 13.2 | 0.90 | 380 | 130 | 0.16 | 0.03 | 0.07 | 0.15 | 0.50 | 0.03 | 0.02 | 0.02 | 22 | |
| 13-FEB-91 | 31.2 | 2.8 | 93.5 | 9.3 | 100 | 4.53 | -1.30 | 15.0 | 0.90 | 420 | 100 | 0.18 | 0.04 | 0.09 | 0.07 | 0.14 | 0.70 | 0.05 | 0.03 | 48 | |
| 20-FEB-91 | 37.3 | 1.2 | 118.7 | 6.6 | 100 | 4.30 | -1.60 | 15.0 | 0.95 | 420 | 118 | 0.16 | 0.03 | 0.07 | 0.07 | 0.13 | 0.60 | 0.06 | 0.02 | 47 | |
| 27-FEB-91 | 38.5 | 3.5 | 107.2 | 10.3 | 100 | 4.46 | -1.60 | 15.0 | 0.85 | 437 | 129 | 0.16 | 0.03 | 0.07 | 0.07 | 0.13 | 0.60 | 0.06 | 0.02 | 22 | |
| 04-MAR-91 | 27.3 | 0.3 | 98.5 | 20.7 | 100 | 4.30 | -0.76 | 8.5 | 0.35 | 243 | 103 | 0.06 | 0.02 | 0.06 | 0.08 | 0.17 | 0.90 | 0.02 | 0.03 | 23 | |
| 08-MAR-91 | 25.5 | 1.8 | 87.3 | 8.1 | 100 | 4.74 | -0.93 | 9.4 | 0.50 | 263 | 100 | 0.09 | 0.02 | 0.09 | 0.08 | 0.15 | 1.10 | 0.03 | 0.03 | 23 | |
| 13-MAR-91 | 26.0 | 2.2 | 93.5 | 7.4 | 100 | 4.66 | -0.50 | 10.5 | 0.50 | 270 | 105 | 0.07 | 0.02 | 0.09 | 0.10 | 0.21 | 1.10 | 0.03 | 0.03 | 23 | |
| 19-MAR-91 | 17.5 | 1.3 | 70.5 | 10.3 | 100 | 4.91 | -0.36 | 5.6 | 0.20 | 140 | 74 | 0.03 | 0.01 | 0.08 | 0.07 | 0.15 | 1.20 | 0.03 | 0.03 | 23 | |
| 21-MAR-91 | 22.3 | 0.6 | 84.3 | 8.4 | 100 | 4.50 | -0.34 | 13.2 | 0.90 | 380 | 130 | 0.16 | 0.03 | 0.09 | 0.07 | 0.15 | 1.20 | 0.03 | 0.03 | 23 | |
| 25-MAR-91 | 17.8 | 2.0 | 75.9 | 10.0 | 100 | 5.03 | -0.34 | 7.7 | 0.00 | 129 | 89 | 0.05 | 0.01 | 0.11 | 0.08 | 0.83 | 1.60 | 0.06 | 0.03 | 48 | |
| 28-MAR-91 | 12.8 | 2.8 | 51.4 | 6.9 | 100 | 5.09 | -0.39 | 4.2 | 0.15 | 95 | 90 | 0.05 | 0.01 | 0.11 | 0.08 | 0.16 | 1.20 | 0.06 | 0.03 | 48 | |
| 02-APR-91 | 9.0 | 1.3 | 34.4 | 12.8 | 90 | 4.91 | -0.48 | 7.5 | 0.35 | 137 | 80 | 0.11 | 0.02 | 0.17 | 0.08 | 0.18 | 1.80 | 0.06 | 0.03 | 47 | |
| 08-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 20-DEC-91 | 14.2 | 0.0 | 8.6 | 1.3 | 100 | 4.33 | -1.50 | 11.7 | 0.31 | 426 | 49 | 0.03 | 0.01 | 0.03 | 0.01 | 0.17 | 0.32 | 0.30 | 0.01 | 0.00 | 2 |
| 09-JAN-92 | 12.0 | 1.3 | 14.0 | 1.3 | 100 | 4.43 | -1.80 | 21.2 | 1.30 | 493 | 119 | 0.22 | 0.04 | 0.13 | 0.18 | 0.33 | 0.90 | 0.12 | 0.04 | 22 | |
| 17-JAN-92 | 2.3 | 56.8 | 4.8 | 100 | 4.44 | -1.80 | 16.1 | 1.25 | 376 | 88 | 0.19 | 0.03 | 0.08 | 0.09 | 0.21 | 0.60 | 0.04 | 0.04 | 13 | | |
| 23-JAN-92 | 35.5 | 2.0 | 76.6 | 4.6 | 100 | 4.30 | -2.40 | 21.5 | 0.76 | 190 | 136 | 0.06 | 0.18 | 0.31 | 0.36 | 0.59 | 1.20 | 0.08 | 0.04 | 22 | |
| 30-JAN-92 | 40.3 | 4.2 | 78.9 | 13.8 | 100 | 4.46 | -1.50 | 17.0 | 1.30 | 460 | 175 | 0.18 | 0.03 | 0.09 | 0.20 | 0.40 | 0.70 | 0.05 | 0.02 | 0 | |
| 06-FEB-92 | 37.7 | 1.5 | 63.0 | 9.3 | 100 | 4.45 | -1.80 | 19.6 | 1.50 | 534 | 217 | 0.23 | 0.04 | 0.14 | 0.14 | 0.34 | 1.70 | 0.07 | 0.06 | 11 | |
| 13-FEB-92 | 41.7 | 1.5 | 73.6 | 4.8 | 100 | 4.42 | -2.40 | 19.4 | 1.60 | 532 | 239 | 0.21 | 0.03 | 0.13 | 0.14 | 0.28 | 1.10 | 0.04 | 0.03 | 6 | |
| 20-FEB-92 | 44.0 | 1.7 | 91.9 | 1.3 | 100 | 4.36 | -2.30 | 24.1 | 2.00 | 580 | 235 | 0.33 | 0.05 | 0.18 | 0.18 | 0.30 | 1.40 | 0.05 | 0.06 | 0 | |
| 27-FEB-92 | 49.5 | 1.7 | 90.4 | 9.2 | 100 | 4.34 | -2.30 | 23.3 | 2.00 | 578 | 237 | 0.30 | 0.05 | 0.17 | 0.13 | 0.29 | 1.70 | 0.06 | 0.05 | 0 | |
| 04-MAR-92 | 52.0 | 1.0 | 113.3 | 2.3 | 100 | 4.38 | -2.00 | 22.9 | 2.10 | 570 | 260 | 0.33 | 0.05 | 0.18 | 0.17 | 0.35 | 1.40 | 0.08 | 0.05 | 17 | |
| 13-MAR-92 | 41.3 | 0.6 | 100.3 | 1.3 | 100 | 4.36 | -1.30 | 13.2 | 1.15 | 340 | 185 | 0.15 | 0.03 | 0.22 | 0.15 | 0.30 | 1.50 | 0.08 | 0.05 | 15 | |
| 19-MAR-92 | 43.7 | 1.5 | 115.6 | 8.3 | 100 | 4.52 | -1.60 | 13.6 | 1.40 | 376 | 218 | 0.18 | 0.03 | 0.15 | 0.09 | 0.22 | 1.30 | 0.08 | 0.05 | 13 | |
| 25-MAR-92 | 42.3 | 2.3 | 127.1 | 11.5 | 100 | 4.53 | -1.30 | 15.6 | 1.35 | 433 | 244 | 0.18 | 0.03 | 0.12 | 0.08 | 0.24 | 1.00 | 0.10 | 0.03 | 18 | |
| 01-APR-92 | 34.3 | 0.8 | 108.7 | 24.2 | 100 | 4.61 | -1.10 | 11.3 | 1.05 | 321 | 217 | 0.15 | 0.03 | 0.13 | 0.10 | 0.26 | 1.20 | 0.06 | 0.03 | 24 | |
| 08-APR-92 | 1.0 | 91.9 | 4.8 | 100 | 4.82 | -0.77 | 6.5 | 0.43 | 212 | 171 | 0.06 | 0.01 | 0.16 | 0.10 | 0.15 | 0.02 | 0.02 | 0.02 | 21 | | |
| 15-APR-92 | 26.3 | 2.3 | 98.8 | 21.8 | 100 | 4.91 | -0.67 | 6.8 | 0.45 | 164 | 118 | 0.06 | 0.01 | 0.07 | 0.04 | 0.14 | 1.20 | 0.07 | 0.02 | 18 | |
| 21-APR-92 | 10.0 | 1.8 | 30.0 | 1.3 | 60 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 24-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

Table 3 (cont'd)

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCSZ04

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | % COVER | PH (mg/L) | CHEMICAL PARAMETERS | | | | | | | | | | | | | | |
|-------------|-----------------|------------------------|---------|-----------|---------------------|------|------------------------|-----------|-----------------|------------------------|----------------|-----------------|-----------|----------|-----------|-----------|------------|-----------|-----------|
| | | | | | S.D. | MEAN | SO ₄ (µg/L) | Ca (mg/L) | Conduct (µS/cm) | SO ₄ (µg/L) | Nitrate (µg/L) | Ammonium (µg/L) | Na (mg/L) | K (mg/L) | Mg (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) |
| 22-FEB-88 | 38.0 | 6.6 | 98.8 | 4.53 | -1.60 | 15.3 | 1.5 | 400 | 130 | 0.28 | 0.10 | 0.05 | 0.17 | | | | | | |
| 08-FEB-88 | 42.8 | 10.8 | 98.0 | 4.63 | -1.24 | 12.5 | 0.73 | 315 | 135 | 0.20 | 0.18 | 0.04 | 0.13 | | | | | | |
| 22-FEB-88 | 72.3 | 11.6 | 144.7 | 4.48 | -1.90 | 17.7 | 0.93 | 505 | 165 | 0.24 | 0.10 | 0.04 | 0.18 | | | | | | |
| 07-MAR-88 | 69.3 | 10.8 | 168.4 | 46.8 | 1.00 | 4.50 | -1.70 | 19.3 | 1.25 | 635 | 245 | 0.48 | 0.05 | 0.05 | 0.24 | | | | |
| 14-MAR-88 | 28.1 | 4.8 | 187.7 | 38.5 | 100 | 4.54 | -1.80 | 17.9 | 1.30 | 590 | 260 | 0.32 | 0.11 | 0.05 | 0.22 | | | | |
| 28-MAR-88 | 16.7 | 2.3 | 137.0 | 23.1 | 100 | 4.68 | -1.30 | 11.4 | 0.45 | 320 | 145 | 0.14 | 0.06 | 0.02 | 0.50 | | | | |
| 30-MAR-88 | 14.0 | 0.6 | 113.3 | 13.9 | 100 | 4.68 | -1.30 | 11.4 | 0.45 | 320 | 145 | 0.14 | 0.06 | 0.02 | 0.50 | | | | |
| 05-APR-88 | 5.1 | 1.5 | 43.8 | 23.0 | 33 | 4.86 | -0.69 | 8.7 | 0.45 | 145 | 135 | 0.22 | 0.18 | 0.04 | 0.20 | | | | |
| 07-APR-88 | 6.3 | 2.2 | 53.0 | 26.6 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 590 | 241 | 0.42 | 0.11 | 0.06 | 0.23 | | | | |
| 08-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10-JAN-89 | 24.3 | 2.3 | 31.7 | 6.4 | 100 | 4.79 | -0.85 | 10.6 | 0.80 | 245 | 140 | 0.26 | 0.09 | 0.05 | 0.18 | | | | |
| 24-JAN-89 | 31.3 | 1.5 | 45.1 | 15.6 | 100 | 4.44 | -1.60 | 22.2 | 1.85 | 125 | 61 | 0.58 | 0.13 | 0.10 | 0.28 | | | | |
| 07-FEB-89 | 31.0 | 5.3 | 75.1 | 15.6 | 100 | 4.46 | -1.70 | 21.0 | 1.80 | 315 | 135 | 0.46 | 0.21 | 0.09 | 0.25 | | | | |
| 21-FEB-89 | 49.0 | 4.4 | 86.6 | 3.5 | 100 | 4.45 | -1.80 | 23.9 | 2.20 | 668 | 230 | 0.72 | 0.12 | 0.12 | 0.35 | | | | |
| 07-MAR-89 | 49.3 | 0.6 | 117.2 | 27.4 | 100 | 4.34 | -2.10 | 22.8 | 1.85 | 590 | 241 | 0.42 | 0.11 | 0.06 | 0.23 | | | | |
| 16-MAR-89 | 39.3 | 1.5 | 94.2 | 10.8 | 100 | 4.49 | -1.60 | 18.4 | 1.35 | 535 | 210 | 0.38 | 0.12 | 0.07 | 0.27 | | | | |
| 20-MAR-89 | 57.0 | 2.0 | 147.0 | 10.0 | 100 | 4.49 | -1.60 | 18.4 | 1.35 | 535 | 210 | 0.38 | 0.12 | 0.07 | 0.27 | | | | |
| 28-MAR-89 | 31.7 | 6.4 | 94.2 | 25.8 | 100 | 4.64 | -1.10 | 16.2 | 1.05 | 460 | 200 | 0.32 | 0.18 | 0.07 | 0.29 | | | | |
| 31-MAR-89 | 28.3 | 1.0 | 71.3 | 17.2 | 100 | 4.68 | -1.10 | 12.8 | 0.90 | 322 | 210 | 0.30 | 0.23 | 0.05 | 0.24 | | | | |
| 03-APR-89 | 28.3 | 2.1 | 101.9 | 9.2 | 100 | 4.68 | -1.10 | 12.8 | 0.90 | 322 | 210 | 0.30 | 0.23 | 0.05 | 0.24 | | | | |
| 06-APR-89 | 23.0 | 2.0 | 68.2 | 7.4 | 100 | 4.96 | -0.57 | 9.3 | 0.50 | 233 | 200 | 0.16 | 0.10 | 0.03 | 0.17 | | | | |
| 10-APR-89 | 23.8 | 0.8 | 71.3 | 5.8 | 100 | 4.96 | -0.57 | 9.3 | 0.50 | 233 | 200 | 0.16 | 0.10 | 0.03 | 0.17 | | | | |
| 13-APR-89 | 48.7 | 1.2 | 106.5 | 21.0 | 100 | 4.73 | -0.92 | 9.7 | 0.45 | 223 | 120 | 0.10 | 0.07 | 0.02 | 0.14 | | | | |
| 18-APR-89 | 18.7 | 3.1 | 48.4 | 10.0 | 100 | 4.73 | -0.92 | 9.7 | 0.45 | 223 | 120 | 0.10 | 0.07 | 0.02 | 0.14 | | | | |
| 20-APR-89 | 11.2 | 3.5 | 27.0 | 4.8 | 100 | 4.64 | -0.92 | 10.6 | 0.60 | 305 | 235 | 0.18 | 0.07 | 0.03 | 0.18 | | | | |
| 24-APR-89 | 25.7 | 1.5 | 85.8 | 7.9 | 100 | 4.91 | -0.61 | 9.3 | 0.35 | 305 | 235 | 0.18 | 0.07 | 0.03 | 0.18 | | | | |
| 27-APR-89 | 7.7 | 2.5 | 29.6 | 17.8 | 20 | 4.64 | -1.60 | 22.2 | 1.85 | 125 | 61 | 0.58 | 0.13 | 0.10 | 0.28 | | | | |
| 28-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 6-DEC-89 | 14.3 | 0.6 | 13.2 | 2.6 | 100 | 4.57 | -1.00 | 16.8 | 1.05 | 575 | 207 | 0.46 | 0.09 | 0.16 | 0.09 | 0.22 | 1.40 | 0.04 | 0.04 |
| 3-DEC-89 | 15.0 | 0.0 | 10.9 | 1.3 | 100 | 4.54 | -1.00 | 18.9 | 1.20 | 621 | 200 | 0.52 | 0.11 | 0.35 | 0.18 | 0.37 | 2.30 | 0.04 | 0.04 |
| 8-DEC-89 | 18.2 | 0.3 | 12.4 | 8.3 | 100 | 4.45 | -1.30 | 19.3 | 1.15 | 630 | 209 | 0.48 | 0.14 | 0.29 | 0.14 | 0.39 | 1.90 | 0.04 | 0.04 |
| 8-DEC-89 | 22.0 | 1.0 | 27.7 | 2.6 | 100 | 4.39 | -1.70 | 24.7 | 1.20 | 773 | 221 | 0.51 | 0.11 | 0.17 | 0.11 | 0.51 | 0.93 | 1.60 | 0.04 |
| 03-JAN-90 | 21.8 | 1.4 | 34.3 | 10.3 | 100 | 4.34 | -1.90 | 26.2 | 1.90 | 693 | 193 | 0.55 | 0.07 | 0.28 | 0.21 | 0.42 | 1.10 | 0.04 | 0.03 |
| 10-JAN-90 | 23.3 | 1.5 | 43.8 | 10.8 | 100 | 4.05 | -5.00 | 56.6 | 1.50 | 1900 | 232 | 0.42 | 0.06 | 0.18 | 0.12 | 0.28 | 1.10 | 0.05 | 0.02 |
| 17-JAN-90 | 74.3 | 1.0 | 79.7 | 5.3 | 100 | 4.35 | -2.70 | 27.0 | 2.15 | 690 | 282 | 0.51 | 0.08 | 0.27 | 0.16 | 0.31 | 1.50 | 0.04 | 0.05 |
| 25-JAN-90 | 37.0 | 2.0 | 85.7 | 7.4 | 100 | 4.49 | -1.70 | 20.0 | 1.15 | 574 | 230 | 0.27 | 0.05 | 0.20 | 0.15 | 0.22 | 1.40 | 0.01 | 0.02 |
| 31-JAN-90 | 31.8 | 2.8 | 85.0 | 7.4 | 100 | 4.47 | -1.70 | 19.5 | 1.30 | 520 | 240 | 0.27 | 0.05 | 0.15 | 0.07 | 0.21 | 1.40 | 0.05 | 0.02 |
| 07-FEB-90 | 32.0 | 1.0 | 64.4 | 10.6 | 100 | 4.50 | -1.60 | 19.7 | 1.30 | 563 | 234 | 0.31 | 0.06 | 0.30 | 0.09 | 0.23 | 1.60 | 0.05 | 0.03 |
| 14-FEB-90 | 28.0 | 0.0 | 73.6 | 5.3 | 100 | 4.65 | -1.30 | 15.1 | 0.90 | 460 | 206 | 0.20 | 0.04 | 0.24 | 0.07 | 0.18 | 1.10 | 0.04 | 0.02 |
| 21-FEB-90 | 29.0 | 2.0 | 83.5 | 12.1 | 100 | 4.61 | -1.30 | 15.2 | 0.75 | 490 | 219 | 0.21 | 0.04 | 0.17 | 0.08 | 0.17 | 1.20 | 0.05 | 0.02 |
| 28-FEB-90 | 37.8 | 0.8 | 88.1 | 10.0 | 100 | 4.58 | -1.50 | 15.8 | 0.90 | 484 | 217 | 0.15 | 0.04 | 0.18 | 0.09 | 0.18 | 0.60 | 0.05 | 0.01 |
| 07-MAR-90 | 35.8 | 0.3 | 82.8 | 8.1 | 100 | 4.51 | -1.70 | 17.8 | 1.10 | 546 | 241 | 0.27 | 0.05 | 0.23 | 0.11 | 0.22 | 1.10 | 0.04 | 0.02 |
| 12-MAR-90 | 29.7 | 1.5 | 83.5 | 4.0 | 100 | 4.49 | -1.70 | 20.0 | 1.15 | 574 | 230 | 0.27 | 0.05 | 0.20 | 0.11 | 0.22 | 1.40 | 0.01 | 0.02 |
| 15-MAR-90 | 16.0 | 1.0 | 59.1 | 9.3 | 100 | 4.79 | -0.79 | 11.0 | 0.55 | 333 | 204 | 0.14 | 0.03 | 0.21 | 0.09 | 0.21 | 1.20 | 0.05 | 0.01 |
| 21-MAR-90 | 9.0 | 1.0 | 20.9 | 7.0 | 50 | 4.77 | -0.96 | 9.9 | 0.45 | 379 | 222 | 0.11 | 0.02 | 0.09 | 0.08 | 0.18 | 0.60 | 0.03 | 0.01 |
| 28-MAR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 04-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 12-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. (mm) | COVER | PH | ALK (mg/L) | Conc25 (mg/L) (nmol/equ) | SC04 (mg/L) | CHEMICAL PARAMETERS | | | | | Al (mg/L) | | |
|-------------|-----------------|-----------------------------|-----------|-------|------|------------|--------------------------|-------------|---------------------|-----------|-----------|----------|-----------|------------|------|------|
| | | | | | | | | | Ammonium (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | DOC (mg/L) | | |
| 12-DEC-90 | 11.0 | 0.5 | 19.3 | 4.6 | 100 | 4.71 | -0.99 | 11.8 | 0.60 | 285 | 77 | 14 | 0.02 | 0.40 | 0.02 | 0.00 |
| 19-DEC-90 | 17.8 | 4.7 | 39.6 | 8.3 | 100 | 4.51 | -1.40 | 20.9 | 1.70 | 381 | 141 | 0.56 | 0.13 | 0.19 | 0.33 | 0.04 |
| 04-JAN-91 | 15.7 | 2.1 | 31.6 | 6.6 | 100 | 4.58 | -1.30 | 14.2 | 1.00 | 363 | 89 | 0.58 | 0.05 | 0.41 | 0.11 | 0.07 |
| 09-JAN-91 | 21.0 | 4.4 | 41.5 | 7.4 | 100 | 4.56 | -1.10 | 16.4 | 0.83 | 439 | 99 | 0.52 | 0.07 | 0.23 | 0.44 | 0.07 |
| 16-JAN-91 | 30.7 | 0.6 | 63.1 | 7.4 | 100 | 4.47 | -1.20 | 16.9 | 0.93 | 481 | 125 | 0.23 | 0.04 | 0.13 | 0.09 | 0.13 |
| 23-JAN-91 | 40.8 | 8.7 | 94.6 | 15.4 | 100 | 4.29 | -2.60 | 1.70 | 632 | 158 | 0.35 | 0.06 | 0.10 | 0.12 | 1.40 | |
| 30-JAN-91 | 34.5 | 0.5 | 75.9 | 4.8 | 100 | 4.39 | -1.80 | 23.8 | 1.35 | 736 | 76 | 0.41 | 0.06 | 0.10 | 0.20 | 0.33 |
| 05-FEB-91 | 27.2 | 2.0 | 79.7 | 7.4 | 100 | 4.48 | -1.60 | 19.5 | 1.35 | 554 | 156 | 0.32 | 0.06 | 0.09 | 0.14 | 0.25 |
| 08-FEB-91 | 27.2 | 1.0 | 90.4 | 6.9 | 100 | 4.45 | -1.60 | 16.4 | 1.15 | 455 | 150 | 0.27 | 0.05 | 0.09 | 0.11 | 0.20 |
| 13-FEB-91 | 26.7 | 1.2 | 88.1 | 100 | 4.45 | -1.60 | 16.4 | 1.15 | 455 | 150 | 0.27 | 0.05 | 0.09 | 0.11 | 0.20 | |
| 20-FEB-91 | 31.0 | 1.0 | 111.1 | 9.5 | 100 | 4.58 | -1.10 | 14.1 | 0.80 | 418 | 129 | 0.18 | 0.07 | 0.08 | 0.17 | 0.04 |
| 27-FEB-91 | 36.5 | 0.3 | 108.0 | 3.5 | 100 | 4.45 | -1.60 | 17.3 | 1.03 | 512 | 159 | 0.27 | 0.05 | 0.10 | 0.11 | 0.17 |
| 04-MAR-91 | 25.0 | 1.0 | 89.6 | 11.5 | 100 | 4.74 | -0.86 | 10.6 | 0.50 | 311 | 132 | 0.11 | 0.02 | 0.08 | 0.16 | 0.28 |
| 08-MAR-91 | 23.7 | 2.3 | 80.9 | 1.3 | 100 | 4.71 | -1.00 | 10.1 | 0.45 | 320 | 130 | 0.10 | 0.02 | 0.07 | 0.15 | 0.10 |
| 13-MAR-91 | 24.7 | 1.5 | 86.6 | 8.7 | 100 | 4.92 | -0.92 | 10.0 | 0.40 | 300 | 135 | 0.09 | 0.02 | 0.07 | 0.14 | 0.25 |
| 19-MAR-91 | 19.0 | 2.0 | 75.9 | 13.4 | 100 | 4.80 | -0.33 | 7.4 | 0.25 | 241 | 139 | 0.05 | 0.01 | 0.05 | 0.11 | 0.19 |
| 21-MAR-91 | 22.7 | 0.6 | 82.8 | 4.8 | 100 | 4.80 | -0.33 | 7.4 | 0.25 | 241 | 139 | 0.05 | 0.01 | 0.05 | 0.11 | 0.20 |
| 25-MAR-91 | 21.5 | 1.3 | 88.9 | 9.5 | 100 | 4.59 | -0.50 | 6.3 | 0.00 | 198 | 137 | 0.03 | 0.00 | 0.09 | 0.18 | 0.30 |
| 28-MAR-91 | 22.5 | 2.2 | 87.3 | 1.3 | 100 | 5.12 | -0.39 | 4.7 | 0.13 | 131 | 129 | 0.06 | 0.01 | 0.09 | 0.13 | 0.24 |
| 02-APR-91 | 12.8 | 2.6 | 48.4 | 9.5 | 90 | 4.94 | -0.45 | 7.4 | 0.30 | 158 | 106 | 0.08 | 0.02 | 0.09 | 0.19 | 1.60 |
| 08-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.02 |
| 20-DEC-91 | 11.7 | 0.8 | 5.6 | 2.3 | 100 | 4.53 | -1.60 | 11.7 | 0.33 | 419 | 51 | 0.03 | 0.01 | 0.03 | 0.14 | 0.26 |
| 09-JAN-92 | 9.5 | 0.5 | 13.2 | 3.5 | 100 | 4.44 | -1.80 | 18.4 | 1.10 | 509 | 118 | 0.18 | 0.03 | 0.09 | 0.23 | 0.46 |
| 17-JAN-92 | 25.0 | 1.0 | 36.1 | 5.8 | 100 | 4.49 | -1.30 | 14.1 | 1.10 | 336 | 81 | 0.21 | 0.04 | 0.07 | 0.19 | 0.70 |
| 21-JAN-92 | 28.0 | 3.1 | 59.1 | 10.6 | 100 | 4.21 | -3.30 | 12.5 | 2.00 | 860 | 264 | 0.28 | 0.12 | 0.25 | 0.52 | 0.93 |
| 30-JAN-92 | 34.0 | 2.0 | 74.3 | 14.3 | 100 | 4.55 | -1.30 | 14.4 | 1.20 | 380 | 130 | 0.20 | 0.03 | 0.07 | 0.12 | 0.23 |
| 06-FEB-92 | 32.2 | 1.0 | 62.1 | 4.8 | 100 | 4.39 | -2.10 | 25.2 | 2.50 | 651 | 116 | 0.59 | 0.09 | 0.19 | 0.17 | 0.35 |
| 13-FEB-92 | 35.2 | 0.3 | 57.3 | 7.0 | 100 | 4.38 | -2.70 | 23.4 | 2.35 | 685 | 277 | 0.52 | 0.08 | 0.22 | 0.21 | 0.41 |
| 20-FEB-92 | 42.0 | 0.0 | 77.4 | 8.7 | 100 | 4.23 | -3.00 | 39.7 | 4.50 | 835 | 276 | 1.13 | 0.19 | 0.43 | 0.27 | 0.61 |
| 27-FEB-92 | 49.5 | 1.3 | 112.6 | 15.3 | 100 | 4.23 | -3.00 | 37.7 | 4.25 | 754 | 245 | 1.05 | 0.18 | 0.41 | 0.22 | 0.56 |
| 04-MAR-92 | 51.5 | 4.1 | 106.4 | 12.8 | 100 | 4.35 | -2.10 | 29.9 | 3.40 | 640 | 320 | 0.81 | 0.15 | 0.48 | 0.21 | 0.48 |
| 13-MAR-92 | 42.0 | 0.0 | 93.5 | 5.8 | 100 | 4.43 | -1.80 | 20.0 | 2.00 | 355 | 205 | 0.37 | 0.07 | 0.20 | 0.10 | 0.33 |
| 19-MAR-92 | 40.2 | 0.3 | 113.3 | 4.0 | 100 | 4.58 | -1.20 | 15.3 | 1.63 | 436 | 249 | 0.32 | 0.06 | 0.18 | 0.13 | 0.26 |
| 25-MAR-92 | 39.0 | 2.0 | 116.4 | 5.8 | 100 | 4.51 | -1.80 | 16.7 | 1.60 | 472 | 261 | 0.30 | 0.05 | 0.13 | 0.12 | 1.60 |
| 01-APR-92 | 30.0 | 1.0 | 102.6 | 3.3 | 100 | 4.59 | -1.10 | 14.4 | 1.20 | 398 | 249 | 0.24 | 0.04 | 0.16 | 0.19 | 0.41 |
| 08-APR-92 | 26.5 | 1.8 | 93.0 | 7.9 | 100 | 4.80 | -0.69 | 8.1 | 0.50 | 252 | 196 | 0.12 | 0.02 | 0.09 | 0.06 | 0.21 |
| 15-APR-92 | 27.7 | 0.6 | 98.8 | 12.6 | 100 | 4.89 | -0.59 | 8.0 | 0.55 | 240 | 177 | 0.10 | 0.02 | 0.08 | 0.07 | 0.20 |
| 21-APR-92 | 8.0 | 1.0 | 30.0 | 7.0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10 | 0.07 |
| 24-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |

Table 4 (cont'd)

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCSZ05

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. (mm) | % | COVER | CHEMICAL PARAMETERS | | | | | | | | | | | |
|-------------|-----------------|-----------------------------|-----------|------|-------|---------------------|------------|---------------|------------|----------------|----------------|-----------|-----------|----------|-----------|-----------|--|
| | | | | | | PH | ALK (mg/L) | COND25 (mg/L) | SO4 (mg/L) | NITRATE (mg/L) | AMMONIA (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | |
| 22-JAN-88 | 5.8 | 78.9 | 26.0 | 100 | 4.52 | -1.60 | 17.0 | 1.45 | 435 | 145 | 0.34 | 0.11 | 0.06 | 0.17 | | | |
| 08-FEB-88 | 49.3 | 6.1 | 4.0 | 100 | 4.61 | -1.45 | 14.1 | 0.90 | 350 | 150 | 0.24 | 0.09 | 0.04 | 0.17 | | | |
| 22-FEB-88 | 87.3 | 4.0 | 179.1 | 19.2 | 100 | 4.49 | -1.80 | 18.2 | 1.05 | 455 | 140 | 0.24 | 0.17 | 0.04 | 0.30 | | |
| 07-MAR-88 | 77.0 | 7.6 | 191.3 | 26.4 | 100 | -999.00 | 15.4 | 1.10 | 525 | 205 | 0.50 | 0.22 | 0.06 | 0.18 | | | |
| 14-MAR-88 | 30.0 | 0.9 | 192.0 | 11.8 | 100 | 4.48 | -1.90 | 17.3 | 1.15 | 550 | 215 | 0.28 | 0.09 | 0.04 | 0.19 | | |
| 28-MAR-88 | 24.3 | 1.1 | 173.7 | 12.6 | 100 | 4.98 | -0.59 | 9.1 | 0.65 | 295 | 150 | 0.24 | 0.15 | 0.03 | 0.12 | | |
| 30-MAR-88 | 21.7 | 2.5 | 175.5 | 33.3 | 100 | 6.7 | -0.75 | 6.3 | 0.35 | 135 | 105 | 0.14 | 0.10 | 0.02 | 0.12 | | |
| 05-APR-88 | 15.3 | 1.4 | 126.3 | 19.5 | 100 | 6.7 | 4.98 | -0.75 | 6.3 | 0.35 | 135 | 105 | 0.14 | 0.10 | 0.02 | 0.12 | |
| 07-APR-88 | 10.3 | 2.3 | 86.6 | 29.0 | 100 | 6.7 | 4.98 | -0.75 | 6.3 | 0.35 | 135 | 105 | 0.14 | 0.10 | 0.02 | 0.12 | |
| 11-APR-88 | 8.4 | 0.5 | 46.1 | 10.3 | 31 | 5.03 | -0.46 | 6.9 | 0.30 | 155 | 135 | 0.18 | 0.13 | 0.02 | 0.14 | | |
| 15-APR-88 | 2.5 | 0.8 | 4.8 | 33 | 4.8 | -0.43 | 5.9 | 0.45 | 140 | 110 | 0.10 | 0.06 | 0.02 | 0.09 | | | |
| 18-APR-88 | 5.1 | 1.4 | 35.4 | 11.9 | 10 | 5.03 | -0.43 | 5.9 | 0.45 | 140 | 110 | 0.10 | 0.06 | 0.02 | 0.09 | | |
| 22-APR-88 | 5.4 | 2.2 | 32.3 | 10.8 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 320 | 165 | 0.22 | 0.07 | 0.04 | 0.15 | | |
| 23-APR-88 | 0.0 | 0.0 | 5.8 | 59.4 | 100 | 4.65 | -1.20 | 12.0 | 0.90 | 495 | 245 | 0.30 | 0.07 | 0.03 | 0.20 | | |
| 24-JAN-89 | 50.7 | 2.5 | 107.2 | 18.5 | 100 | 4.54 | -1.40 | 16.8 | 1.20 | 520 | 320 | 0.36 | 0.21 | 0.07 | 0.25 | | |
| 24-FEB-89 | 60.3 | 5.9 | 122.5 | 9.2 | 100 | 4.57 | -1.20 | 15.8 | 1.40 | 540 | 260 | 0.38 | 0.08 | 0.07 | 0.33 | | |
| 21-FEB-89 | 91.3 | 1.2 | 148.5 | 32.9 | 100 | 4.10 | -1.30 | 18.6 | 1.45 | 549 | 260 | 0.38 | 0.07 | 0.07 | 0.34 | | |
| 07-MAR-89 | 75.7 | 1.5 | 159.0 | 19.2 | 100 | 4.27 | -2.40 | 25.4 | 1.90 | 626 | 322 | 0.38 | 0.07 | 0.07 | 0.34 | | |
| 16-MAR-89 | 70.0 | 1.0 | 163.4 | 13.9 | 100 | 4.47 | -1.80 | 16.8 | 1.30 | 505 | 225 | 0.26 | 0.09 | 0.05 | 0.22 | | |
| 20-MAR-89 | 89.7 | 8.1 | 189.0 | 6.9 | 100 | 4.68 | -1.10 | 15.0 | 1.05 | 480 | 235 | 0.24 | 0.16 | 0.06 | 0.18 | | |
| 28-MAR-89 | 61.0 | 6.1 | 143.1 | 36.0 | 100 | 4.82 | -0.86 | 10.3 | 0.75 | 272 | 175 | 0.20 | 0.19 | 0.00 | 0.14 | | |
| 31-MAR-89 | 57.2 | 3.0 | 177.5 | 8.3 | 100 | 4.82 | -0.86 | 10.3 | 0.75 | 272 | 175 | 0.20 | 0.19 | 0.00 | 0.14 | | |
| 03-APR-89 | 57.0 | 3.6 | 192.0 | 28.7 | 100 | 4.82 | -0.86 | 10.3 | 0.75 | 272 | 175 | 0.20 | 0.19 | 0.00 | 0.14 | | |
| 06-APR-89 | 46.7 | 5.0 | 142.7 | 23.3 | 100 | 4.88 | -0.75 | 8.8 | 0.60 | 223 | 175 | 0.14 | 0.09 | 0.03 | 0.10 | | |
| 10-APR-89 | 45.3 | 1.3 | 150.0 | 6.1 | 100 | 4.88 | -0.75 | 8.8 | 0.60 | 223 | 175 | 0.14 | 0.09 | 0.03 | 0.10 | | |
| 13-APR-89 | 65.7 | 3.2 | 165.3 | 12.6 | 100 | 5.02 | -0.43 | 8.7 | 0.45 | 250 | 160 | 0.12 | 0.03 | 0.02 | 0.11 | | |
| 18-APR-89 | 53.3 | 3.2 | 170.6 | 8.3 | 100 | 5.02 | -0.43 | 8.7 | 0.45 | 250 | 160 | 0.12 | 0.03 | 0.02 | 0.11 | | |
| 20-APR-89 | 45.7 | 2.3 | 143.1 | 15.9 | 100 | 4.66 | -1.80 | 12.5 | 0.75 | 460 | 235 | 0.22 | 0.06 | 0.04 | 0.14 | | |
| 24-APR-89 | 42.3 | 3.1 | 146.6 | 17.5 | 100 | 4.66 | -1.80 | 12.5 | 0.75 | 460 | 235 | 0.22 | 0.06 | 0.04 | 0.14 | | |
| 27-APR-89 | 30.0 | 1.0 | 104.2 | 16.1 | 50 | 4.61 | -0.6 | 10 | 0.00 | 1300 | 231 | 0.04 | 0.07 | 0.02 | 0.20 | | |
| 01-MAY-89 | 16.7 | 0.6 | 46.1 | 1.3 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 604 | 249 | 0.38 | 0.06 | 0.15 | 0.29 | 33 | |
| 02-MAY-89 | 0.0 | 0.0 | 2.0 | 28.3 | 100 | 4.52 | -1.20 | 17.3 | 1.05 | 604 | 240 | 0.42 | 0.07 | 0.21 | 0.15 | 29 | |
| 3-DEC-89 | 21.7 | 2.3 | 23.9 | 2.3 | 100 | 4.46 | -1.20 | 19.1 | 1.20 | 657 | 213 | 0.42 | 0.08 | 0.30 | 0.25 | 26 | |
| 0-DEC-89 | 22.8 | 0.5 | 25.4 | 1.3 | 100 | 4.49 | -1.20 | 18.3 | 1.15 | 680 | 238 | 0.38 | 0.07 | 0.13 | 0.48 | 26 | |
| 8-DEC-89 | 33.7 | 4.2 | 23.1 | 12.6 | 100 | 4.41 | -1.60 | 23.3 | 0.95 | 715 | 197 | 0.38 | 0.07 | 0.13 | 0.83 | 30 | |
| 3-IAN-90 | 31.7 | 1.2 | 27.7 | 9.3 | 100 | 4.38 | -1.70 | 21.5 | 1.00 | 676 | 186 | 0.29 | 0.05 | 0.10 | 0.14 | 27 | |
| 0-IAN-90 | 37.0 | 1.0 | 59.8 | 2.6 | 100 | 4.14 | -4.10 | 36.9 | 0.90 | 1300 | 231 | 0.04 | 0.07 | 0.22 | 0.70 | 20 | |
| 7-IAN-90 | 45.3 | 0.6 | 108.0 | 8.1 | 100 | 4.46 | -2.10 | 19.8 | 1.00 | 550 | 222 | 0.24 | 0.03 | 0.09 | 0.14 | 21 | |
| 3-DEC-90 | 56.0 | 3.6 | 118.7 | 3.0 | 100 | 4.50 | -1.50 | 17.3 | 0.80 | 540 | 215 | 0.15 | 0.03 | 0.07 | 0.16 | 20 | |
| 1-IAN-90 | 51.7 | 1.2 | 127.1 | 23.3 | 100 | 4.25 | -2.90 | 22.9 | 0.90 | 750 | 230 | 0.19 | 0.04 | 0.12 | 0.08 | 19 | |
| 07-FEB-90 | 57.3 | 1.5 | 128.6 | 8.1 | 100 | 4.55 | -1.50 | 16.8 | 1.00 | 525 | 238 | 0.20 | 0.04 | 0.09 | 0.07 | 21 | |
| 14-FEB-90 | 51.0 | 1.0 | 112.6 | 4.8 | 100 | 4.55 | -1.70 | 17.7 | 1.05 | 572 | 287 | 0.21 | 0.04 | 0.07 | 0.18 | 20 | |
| 21-FEB-90 | 41.3 | 3.2 | 112.6 | 11.5 | 100 | 4.72 | -1.10 | 14.2 | 0.80 | 449 | 235 | 0.23 | 0.05 | 0.14 | 1.70 | 0.03 | |
| 28-FEB-90 | 48.0 | 4.4 | 124.8 | 10.5 | 100 | 4.59 | -1.60 | 14.6 | 0.90 | 443 | 233 | 0.14 | 0.04 | 0.17 | 0.60 | 45 | |
| 07-MAR-90 | 58.7 | 0.8 | 148.5 | 25.1 | 100 | 4.59 | -1.50 | 14.3 | 0.80 | 419 | 208 | 0.17 | 0.03 | 0.10 | 0.09 | 27 | |
| 12-MAR-90 | 57.0 | 2.6 | 151.5 | 7.4 | 100 | 4.50 | -0.6 | 10 | 0.00 | 1300 | 231 | 0.04 | 0.07 | 0.02 | 0.02 | 20 | |

Table 5

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE S.D. (mm) | | % | PH | ALK (mg/L) | COND25 (mg/L) | SO4 (water/sed) (mg/L) | CHEMICAL PARAMETERS | | | Cl (mg/L) | DOC (mg/L) | FO (mg/L) | Mn (mg/L) | Al (mg/L) |
|-------------|-----------------|-----------------------------|---------|------|-----|------------|---------------|------------------------|---------------------|-----------|------|-----------|------------|-----------|-----------|-----------|
| | | MEAN | S.D. | | | | | | Ca (mg/L) | Na (mg/L) | | | | | | |
| 15-MAR-90 | 46.3 | 1.5 | 159.9 | 9.5 | 100 | 4.86 | -0.79 | 9.5 | 0.55 | 360 | 216 | 0.69 | 0.02 | 0.08 | 0.18 | 0.60 |
| 21-MAR-90 | 32.3 | 1.0 | 63.5 | 19.6 | 90 | 4.87 | -0.84 | 8.7 | 0.40 | 346 | 219 | 0.10 | 0.02 | 0.09 | 0.19 | 0.70 |
| 28-MAR-90 | 30.2 | 1.0 | 99.6 | 11.5 | 75 | 5.5 | 78.7 | 21.3 | 0.55 | 360 | 216 | 0.62 | 0.02 | 0.08 | 0.18 | 0.60 |
| 04-APR-90 | 23.8 | 1.5 | 50.7 | 10.6 | 50 | 5.5 | 78.7 | 21.3 | 0.40 | 346 | 219 | 0.10 | 0.02 | 0.09 | 0.19 | 0.70 |
| 12-APR-90 | 17.3 | 1.5 | 50.7 | 10.6 | 50 | 6.0 | 78.7 | 20.8 | 0.55 | 360 | 216 | 0.62 | 0.02 | 0.08 | 0.18 | 0.60 |
| 18-APR-90 | 24.8 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 375 | 122 | 0.17 | 0.03 | 0.29 | 0.61 | 0.60 |
| 19-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 375 | 122 | 0.17 | 0.07 | 0.29 | 0.61 | 0.60 |
| 12-DEC-90 | 18.7 | 2.1 | 33.1 | 2.3 | 100 | 4.67 | -1.00 | 14.4 | 0.80 | 375 | 122 | 0.17 | 0.03 | 0.29 | 0.61 | 0.60 |
| 19-DEC-90 | 22.0 | 0.8 | 43.5 | 1.1 | 100 | 5.02 | -1.40 | 16.2 | 0.55 | 412 | 90 | 0.10 | 0.02 | 0.13 | 0.50 | 0.01 |
| 04-JAN-91 | 26.7 | 0.6 | 49.4 | 2.3 | 100 | 4.67 | -1.10 | 9.6 | 0.55 | 281 | 90 | 0.10 | 0.02 | 0.13 | 0.50 | 0.01 |
| 09-JAN-91 | 40.0 | 1.7 | 74.3 | 4.0 | 100 | 4.64 | -0.93 | 11.3 | 0.60 | 331 | 85 | 0.15 | 0.03 | 0.17 | 0.25 | 0.70 |
| 16-JAN-91 | 42.7 | 6.7 | 121.0 | 12.6 | 100 | 4.48 | -1.30 | 16.1 | 0.90 | 445 | 135 | 0.15 | 0.03 | 0.09 | 0.15 | 0.80 |
| 23-JAN-91 | 57.2 | 1.6 | 140.1 | 2.6 | 100 | 4.64 | -2.30 | 20.6 | 1.30 | 546 | 154 | 0.24 | 0.04 | 0.09 | 0.11 | 0.21 |
| 30-JAN-91 | 60.3 | 9.6 | 113.3 | 27.9 | 100 | 4.34 | -2.10 | 19.5 | 1.20 | 603 | 141 | 0.27 | 0.05 | 0.09 | 0.25 | 0.42 |
| 05-FEB-91 | 54.7 | 4.3 | 137.8 | 11.8 | 100 | 4.38 | -2.00 | 20.5 | 1.40 | 589 | 168 | 0.39 | 0.05 | 0.11 | 0.13 | 0.70 |
| 13-FEB-91 | 37.3 | 2.4 | 114.1 | 17.4 | 100 | 4.57 | -1.10 | 15.1 | 1.00 | 447 | 146 | 0.25 | 0.06 | 0.20 | 0.38 | 0.61 |
| 20-FEB-91 | 40.0 | 1.0 | 110.3 | 7.4 | 100 | 4.57 | -1.10 | 15.1 | 1.00 | 447 | 146 | 0.25 | 0.06 | 0.20 | 0.38 | 0.61 |
| 27-FEB-91 | 49.3 | 0.6 | 129.4 | 2.6 | 100 | 4.43 | -1.80 | 17.2 | 0.90 | 502 | 133 | 0.18 | 0.04 | 0.11 | 0.20 | 0.50 |
| 04-MAR-91 | 53.2 | 2.1 | 129.4 | 23.9 | 100 | 4.51 | -1.30 | 13.9 | 0.70 | 424 | 131 | 0.14 | 0.03 | 0.05 | 0.14 | 0.50 |
| 11-MAR-91 | 47.3 | 0.3 | 146.4 | 12.6 | 100 | 4.64 | -1.20 | 10.9 | 0.40 | 344 | 14 | 0.08 | 0.02 | 0.04 | 0.09 | 0.19 |
| 18-MAR-91 | 49.0 | 3.0 | 168.3 | 4.0 | 100 | 4.66 | -1.10 | 11.0 | 0.45 | 355 | 122 | 0.08 | 0.02 | 0.04 | 0.09 | 0.17 |
| 25-MAR-91 | 48.3 | 2.0 | 152.3 | 6.1 | 100 | 4.67 | -1.00 | 10.8 | 0.50 | 340 | 130 | 0.10 | 0.02 | 0.08 | 0.10 | 0.19 |
| 19-MAR-91 | 40.7 | 2.0 | 150.0 | 6.9 | 100 | 4.78 | -0.84 | 8.1 | 0.30 | 271 | 117 | 0.04 | 0.03 | 0.04 | 0.10 | 0.20 |
| 21-MAR-91 | 45.0 | 1.7 | 152.3 | 4.0 | 100 | 4.67 | -1.10 | 15.1 | 1.00 | 447 | 146 | 0.25 | 0.06 | 0.20 | 0.38 | 0.61 |
| 28-MAR-91 | 46.7 | 1.3 | 153.4 | 7.0 | 100 | 4.91 | -0.31 | 6.6 | 0.00 | 232 | 123 | 0.18 | 0.06 | 0.07 | 0.12 | 0.20 |
| 04-APR-91 | 40.7 | 0.8 | * 148.5 | 3.5 | 100 | 5.11 | -0.62 | 5.0 | 0.35 | 188 | 122 | 0.06 | 0.01 | 0.06 | 0.07 | 0.10 |
| 08-APR-91 | 38.7 | 1.3 | 150.8 | 5.0 | 100 | 4.98 | -0.52 | 6.9 | 0.25 | 204 | 118 | 0.06 | 0.01 | 0.03 | 0.15 | 0.26 |
| 15-APR-91 | 17.7 | 4.6 | 67.5 | 14.3 | 100 | 4.64 | -2.30 | 50.5 | 0.25 | 405 | 142 | 0.07 | 0.02 | 0.08 | 0.10 | 0.20 |
| 22-APR-91 | 11.5 | 3.0 | 30.8 | 11.5 | 10 | 4.00 | -2.10 | 17.6 | 1.20 | 500 | 190 | 0.09 | 0.02 | 0.09 | 0.17 | 0.30 |
| 29-APR-91 | 5.8 | 0.3 | 17.8 | 1.3 | 100 | 4.45 | -2.00 | 17.2 | 1.15 | 528 | 215 | 0.13 | 0.03 | 0.18 | 0.07 | 0.15 |
| 18-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 251 | 117 | 0.17 | 0.03 | 0.16 | 0.11 | 0.23 |
| 26-APR-91 | 17.0 | 1.3 | 20.4 | 6.6 | 100 | 4.62 | -1.20 | 11.5 | 0.31 | 368 | 45 | 0.14 | 0.01 | 0.07 | 0.48 | 0.77 |
| 03-JAN-92 | 18.2 | 3.9 | 32.3 | 10.8 | 100 | 4.80 | -0.60 | 11.0 | 0.80 | 419 | 91 | 0.17 | 0.11 | 0.31 | 0.20 | 0.37 |
| 17-JAN-92 | 38.2 | 1.6 | 60.6 | 4.5 | 100 | 4.65 | -1.50 | 14.6 | 0.95 | 325 | 98 | 0.09 | 0.02 | 0.09 | 0.15 | 0.50 |
| 23-JAN-92 | 39.8 | 3.3 | 70.5 | 5.0 | 100 | 4.50 | -1.60 | 14.6 | 0.95 | 405 | 142 | 0.07 | 0.02 | 0.08 | 0.10 | 0.22 |
| 30-JAN-92 | 43.0 | 1.2 | 68.6 | 8.0 | 100 | 4.42 | -2.10 | 11.6 | 1.20 | 500 | 190 | 0.09 | 0.02 | 0.10 | 0.09 | 0.20 |
| 06-FEB-92 | 44.5 | 0.5 | 79.7 | 2.6 | 100 | 4.45 | -2.00 | 17.2 | 1.15 | 528 | 215 | 0.13 | 0.03 | 0.18 | 0.07 | 0.15 |
| 13-FEB-92 | 47.3 | 2.1 | 89.6 | 3.5 | 100 | 4.45 | -2.20 | 18.3 | 1.30 | 600 | 251 | 0.17 | 0.03 | 0.16 | 0.11 | 0.23 |
| 20-FEB-92 | 56.3 | 1.2 | 135.5 | 11.5 | 100 | 4.42 | -2.00 | 19.2 | 1.25 | 304 | 207 | 0.13 | 0.02 | 0.07 | 0.19 | 0.30 |
| 27-FEB-92 | 71.0 | 6.2 | 136.3 | 4.6 | 100 | 4.41 | -1.90 | 18.6 | 1.40 | 329 | 237 | 0.12 | 0.02 | 0.06 | 0.16 | 0.32 |
| 04-MAR-92 | 73.0 | 1.7 | 132.4 | 3.5 | 100 | 4.65 | -1.10 | 13.5 | 1.15 | 320 | 175 | 0.08 | 0.02 | 0.06 | 0.14 | 0.20 |
| 11-MAR-92 | 70.0 | 1.0 | 192.8 | 2.6 | 100 | 4.64 | -1.10 | 10.4 | 0.90 | 220 | 150 | 0.04 | 0.01 | 0.02 | 0.04 | 0.05 |
| 18-MAR-92 | 65.2 | 1.3 | 183.6 | 1.0 | 100 | 4.51 | -1.50 | 13.1 | 1.15 | 396 | 218 | 0.09 | 0.02 | 0.03 | 0.07 | 0.15 |
| 25-MAR-92 | 65.3 | 2.5 | 199.7 | 7.4 | 100 | 4.65 | -1.10 | 11.9 | 0.95 | 320 | 202 | 0.07 | 0.01 | 0.06 | 0.16 | 0.31 |
| 01-APR-92 | 57.0 | 3.8 | 198.2 | 12.1 | 100 | 4.62 | -1.10 | 10.2 | 0.85 | 293 | 187 | 0.07 | 0.02 | 0.06 | 0.09 | 0.19 |
| 08-APR-92 | 44.2 | 0.8 | 155.4 | 4.8 | 100 | 4.86 | -0.66 | 5.9 | 0.40 | 207 | 162 | 0.05 | 0.01 | 0.07 | 0.13 | 0.20 |
| 15-APR-92 | 42.3 | 2.4 | 146.9 | 4.8 | 100 | 5.17 | -0.23 | 5.2 | 0.35 | 189 | 154 | 0.04 | 0.01 | 0.03 | 0.11 | 0.20 |
| 21-APR-92 | 33.2 | 8.1 | 114.1 | 16.3 | 90 | 4.37 | 7.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24-APR-92 | 26.0 | 3.5 | 90.7 | 43.7 | 10 | 4.66 | -0.66 | 5.9 | 0.40 | 207 | 162 | 0.05 | 0.01 | 0.07 | 0.13 | 0.20 |
| 28-APR-92 | 16.0 | 0.0 | 50.7 | 14.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 5 (cont'd)

PLASTIC LAKE SNOW CORE DATA SUMMARY
PCSZ07

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | % COVER | PH | ALK (mg/L (caustic)) | CHEMICAL PARAMETERS | | | | | | | | | | | | |
|-------------|-----------------|------------------------|---------|------|----------------------|---------------------|------------|----------------|----------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|-----------|
| | | | | | | COND25 (mg/L) | SO4 (mg/L) | NITRATE (mg/L) | AMMONIA (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) |
| 22-JAN-88 | 41.3 | 6.0 | 89.6 | 8.1 | 100 | 4.50 | -1.70 | 16.9 | 1.40 | 430 | 145 | 0.34 | 0.12 | 0.06 | 0.19 | | | |
| 08-FEB-88 | 48.4 | 7.3 | 103.4 | 17.5 | 100 | 4.58 | -1.45 | 13.8 | 0.90 | 345 | 145 | 0.22 | 0.07 | 0.04 | 0.12 | | | |
| 22-FEB-88 | 82.7 | 2.3 | 150.8 | 35.0 | 100 | 4.53 | -1.70 | 16.3 | 0.80 | 455 | 165 | 0.16 | 0.07 | 0.03 | 0.20 | | | |
| 07-MAR-88 | 71.7 | 8.6 | 192.8 | 18.7 | 100 | 4.51 | -1.40 | 18.1 | 1.05 | 575 | 230 | 0.28 | 0.03 | 0.04 | 0.20 | | | |
| 14-MAR-88 | 29.3 | 1.8 | 193.9 | 12.1 | 100 | 4.47 | -1.70 | 18.6 | 1.20 | 620 | 255 | 0.28 | 0.06 | 0.04 | 0.20 | | | |
| 28-MAR-88 | 21.8 | 1.3 | 165.6 | 23.8 | 100 | 4.74 | -1.20 | 11.1 | 0.55 | 350 | 190 | 0.12 | 0.04 | 0.01 | 0.14 | | | |
| 30-MAR-88 | 20.1 | 2.0 | 173.7 | 19.5 | 100 | 4.95 | -0.62 | 7.1 | 0.35 | 185 | 125 | 0.12 | 0.08 | 0.02 | 0.15 | | | |
| 05-APR-88 | 11.8 | 0.8 | 109.3 | 7.0 | 13.2 | 6.7 | 0.35 | 125 | 0.12 | | | | | | | | | |
| 07-APR-88 | 8.3 | 1.8 | 64.4 | 24.5 | 43.0 | 3.5 | 0.40 | 8.7 | 0.35 | 165 | 100 | 0.36 | 0.36 | 0.05 | 0.18 | | | |
| 11-APR-88 | 6.4 | 2.6 | 41.0 | 33 | 4.95 | -0.40 | | | | | | | | | | | | |
| 15-APR-88 | 2.8 | 1.4 | 1.8 | 3.5 | 33 | 4.95 | -0.40 | | | | | | | | | | | |
| 18-APR-88 | 10.3 | 0.4 | 4.8 | 10 | 5.25 | -0.35 | 5.2 | 0.40 | 170 | 145 | 0.08 | 0.08 | 0.02 | 0.10 | | | | |
| 22-APR-88 | 10.3 | 0.8 | 75.1 | 5.8 | 10 | 5.27 | -0.30 | 11.7 | 0.90 | 300 | 155 | 0.24 | 0.10 | 0.05 | 0.13 | | | |
| 23-APR-88 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| 10-JAN-89 | 25.7 | 2.5 | 43.6 | 8.1 | 100 | 5.27 | -1.30 | 17.7 | 1.35 | 100 | 51 | 0.36 | 0.07 | 0.07 | 0.21 | | | |
| 24-JAN-89 | 43.0 | 3.6 | 78.2 | 5.8 | 100 | 4.51 | -1.30 | 17.7 | 1.40 | 455 | 260 | 0.36 | 0.19 | 0.07 | 0.20 | | | |
| 07-FEB-89 | 50.3 | 8.3 | 93.5 | 5.8 | 100 | 4.54 | -1.20 | 15.7 | 1.40 | 564 | 240 | 0.46 | 0.16 | 0.09 | 0.25 | | | |
| 21-FEB-89 | 61.0 | 3.6 | 107.2 | 18.5 | 100 | 4.54 | -1.20 | 19.6 | 1.65 | 564 | 240 | 0.46 | 0.16 | 0.09 | 0.25 | | | |
| 07-MAR-89 | 68.3 | 7.4 | 137.2 | 13.4 | 100 | 4.38 | -2.00 | 23.9 | 1.85 | 601 | 241 | 0.40 | 0.10 | 0.07 | 0.41 | | | |
| 16-MAR-89 | 63.0 | 1.0 | 150.0 | 13.9 | 100 | 4.43 | -1.90 | 18.5 | 1.45 | 555 | 230 | 0.32 | 0.09 | 0.06 | 0.23 | | | |
| 20-MAR-89 | 81.0 | 3.5 | 186.7 | 14.3 | 100 | 4.64 | -1.20 | 16.1 | 1.20 | 485 | 210 | 0.30 | 0.14 | 0.06 | 0.22 | | | |
| 28-MAR-89 | 55.0 | 3.6 | 153.8 | 16.9 | 100 | 4.64 | -1.20 | 16.1 | 1.20 | | | | | | | | | |
| 31-MAR-89 | 49.0 | 2.0 | 147.7 | 2.3 | 100 | 4.38 | -1.80 | 18.0 | 1.20 | | | | | | | | | |
| 03-APR-89 | 49.7 | 1.2 | 163.0 | 1.3 | 100 | 5.32 | -0.17 | 10.6 | 0.85 | 272 | 195 | 0.38 | 0.21 | 0.00 | 0.69 | | | |
| 06-APR-89 | 42.7 | 1.0 | 125.6 | 16.3 | 100 | 4.38 | -0.17 | 10.6 | 0.85 | | | | | | | | | |
| 10-APR-89 | 46.0 | 3.1 | 152.3 | 10.5 | 100 | 5.01 | -0.57 | 7.7 | 0.50 | 223 | 175 | 0.14 | 0.10 | 0.03 | 0.13 | | | |
| 13-APR-89 | 53.3 | 12.3 | 113.3 | 25.5 | 100 | 5.06 | -0.31 | 7.9 | 0.45 | 235 | 140 | 0.18 | 0.11 | 0.04 | 0.12 | | | |
| 18-APR-89 | 44.0 | 2.0 | 143.9 | 13.2 | 100 | 5.06 | -0.31 | 7.9 | 0.45 | | | | | | | | | |
| 20-APR-89 | 42.0 | 2.8 | 153.8 | 9.3 | 100 | 5.04 | -0.65 | 7.9 | 0.50 | 265 | 220 | 0.14 | 0.12 | 0.03 | 0.18 | | | |
| 24-APR-89 | 32.3 | 1.2 | 108.0 | 7.4 | 100 | 5.04 | -0.65 | 7.9 | 0.50 | | | | | | | | | |
| 27-APR-89 | 27.0 | 1.0 | 93.4 | 5.0 | 100 | 4.32 | -2.80 | 26.3 | 1.15 | 780 | 224 | 0.33 | 0.05 | 0.20 | 0.16 | 0.31 | 0.80 | 0.03 |
| 01-MAY-89 | 11.0 | 2.6 | 28.5 | 12.1 | 10 | 0.0 | 0 | 0 | 0 | | | | | | | | | |
| 02-MAY-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | 575 | 216 | 0.41 | 0.07 | 0.33 | 0.37 | 0.48 | 0.80 | 0.16 |
| 06-DEC-89 | 17.2 | 0.3 | 27.0 | 3.5 | 100 | 4.64 | -0.86 | 16.8 | 1.05 | 616 | 220 | 0.46 | 0.08 | 0.28 | 0.16 | 0.32 | 1.20 | 0.08 |
| 3-DEC-89 | 18.2 | 1.0 | 16.3 | 5.8 | 100 | 4.58 | -0.97 | 17.0 | 1.10 | 700 | 213 | 0.50 | 0.26 | 0.08 | 0.24 | 0.24 | 0.70 | 0.08 |
| 0-DEC-89 | 23.7 | 0.6 | 22.4 | 4.0 | 100 | 4.50 | -1.20 | 18.0 | 1.15 | | | | | | | | | |
| 8-DEC-89 | 30.7 | 0.6 | 28.5 | 8.3 | 100 | 4.39 | -1.80 | 26.4 | 0.95 | 763 | 207 | 0.40 | 0.06 | 0.14 | 0.66 | 1.02 | 0.80 | 0.03 |
| 03-JAN-89 | 29.7 | 1.3 | 33.8 | 7.4 | 100 | 4.38 | -1.80 | 23.9 | 1.30 | 695 | 200 | 0.37 | 0.06 | 0.20 | 0.20 | 0.41 | 0.90 | 0.02 |
| 10-JAN-89 | 32.3 | 0.6 | 59.1 | 4.8 | 100 | 4.32 | -2.80 | 26.3 | 1.15 | 780 | 224 | 0.33 | 0.05 | 0.20 | 0.16 | 0.31 | 0.80 | 0.03 |
| 17-JAN-89 | 38.0 | 1.0 | 82.0 | 9.3 | 100 | 4.00 | -0.60 | 49.3 | 1.35 | 1750 | 302 | 0.34 | 0.06 | 0.25 | 0.40 | 1.00 | 0.02 | 0.25 |
| 25-JAN-89 | 47.0 | 2.6 | 92.7 | 4.0 | 100 | 4.54 | -1.60 | 17.9 | 1.00 | 566 | 250 | 0.21 | 0.03 | 0.22 | 0.48 | 0.80 | 0.03 | 0.25 |
| 31-JAN-89 | 43.3 | 1.5 | 103.7 | 15.7 | 100 | 4.23 | -1.00 | 13.6 | 0.85 | 480 | 230 | 0.31 | 0.05 | 0.15 | 0.57 | 0.70 | 0.03 | 0.02 |
| 07-FEB-89 | 46.3 | 2.5 | 108.0 | 7.4 | 100 | 4.68 | -1.00 | 15.0 | 0.90 | 511 | 220 | 0.29 | 0.04 | 0.20 | 0.44 | 0.71 | 0.02 | 0.30 |
| 14-FEB-89 | 44.3 | 2.1 | 113.3 | 10.5 | 100 | 4.63 | -1.40 | 16.0 | 0.90 | 512 | 264 | 0.20 | 0.04 | 0.12 | 0.66 | 0.70 | 0.03 | 0.02 |
| 21-FEB-89 | 48.0 | 2.6 | 120.2 | 28.7 | 100 | 4.57 | -1.40 | 16.2 | 0.80 | 537 | 246 | 0.22 | 0.04 | 0.13 | 0.66 | 0.70 | 0.03 | 0.02 |
| 28-FEB-89 | 67.5 | 3.3 | 139.3 | 5.8 | 100 | 4.50 | -1.70 | 17.5 | 0.95 | 555 | 248 | 0.17 | 0.04 | 0.11 | 0.69 | 0.66 | 0.03 | 0.01 |
| 07-MAR-89 | 55.7 | 3.4 | 130.9 | 28.5 | 100 | 4.57 | -1.40 | 17.4 | 1.05 | 544 | 239 | 0.27 | 0.05 | 0.18 | 0.61 | 0.50 | 0.03 | 0.01 |
| 12-MAR-89 | 49.0 | 1.7 | 137.0 | 2.6 | 100 | | | | | | | | | | | 1.10 | 0.03 | 0.01 |

PCSZ7 (cm⁴)

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE | | COVER % | PH | ALK (mg/L) | COND25 (µS/cm) | SO4 (µg/L) | NITRATE (µg/L) | AMMONIA (µg/L) | CHEMICAL PARAMETERS | | | | AI (mg/L) | | | | | |
|-------------|-----------------|-------------------|-----------|---------|------|------------|----------------|------------|----------------|----------------|---------------------|------------|----------|-----------|-----------|------|------|------|------|----|
| | | MEAN (mm) | S.D. (mm) | | | | | | | | Ca (mg/L) | Mg. (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | | | | | |
| 15-MAR-90 | 33.7 | 0.6 | 102.6 | 10.8 | 100 | 4.80 | -0.94 | 9.5 | 0.50 | 369 | 210 | 0.08 | 0.02 | 0.68 | 0.14 | 0.60 | 0.03 | 0.01 | 26 | |
| 21-MAR-90 | 24.3 | 3.2 | 62.1 | 19.1 | 75 | 4.92 | -0.67 | 7.8 | 0.35 | 297 | 198 | 0.05 | 0.01 | 0.65 | 0.14 | 0.40 | 0.03 | 0.00 | 25 | |
| 28-MAR-90 | 21.8 | 3.2 | 70.3 | 10.3 | 50 | | | | | | | | | | | | | | | |
| 04-APR-90 | 20.0 | 1.3 | 5.8 | 30.8 | 25 | | | | | | | | | | | | | | | |
| 12-APR-90 | 14.3 | 2.3 | 35.4 | 2.3 | 25 | | | | | | | | | | | | | | | |
| 18-APR-90 | 12.0 | 0.5 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | |
| 19-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | |
| 19-DEC-90 | 18.5 | 0.5 | 31.6 | 1.3 | 100 | 4.64 | -1.10 | 13.5 | 0.70 | 359 | 99 | 0.16 | 0.03 | 0.04 | 0.16 | 0.24 | 0.50 | 0.02 | 19 | |
| 19-DEC-90 | 21.2 | 1.8 | 40.7 | 1.3 | 100 | 4.57 | -1.20 | 14.6 | 1.15 | 330 | 101 | 0.20 | 0.04 | 0.20 | 0.37 | 0.13 | 0.70 | 0.05 | 0.01 | 31 |
| 04-JAN-91 | 26.0 | 4.2 | 49.1 | 3.2 | 100 | 4.67 | -1.10 | 10.5 | 0.70 | 281 | 96 | 0.16 | 0.03 | 0.13 | 0.10 | 0.17 | 0.70 | 0.05 | 0.01 | 27 |
| 08-JAN-91 | 34.7 | 4.2 | 69.0 | 7.0 | 100 | 4.36 | -1.20 | 11.7 | 0.50 | 337 | 121 | 0.11 | 0.02 | 0.06 | 0.09 | 0.59 | 0.03 | 0.01 | 20 | |
| 16-JAN-91 | 44.0 | 6.0 | 106.4 | 10.5 | 100 | 4.50 | -1.40 | 14.7 | 0.70 | 419 | 121 | 0.11 | 0.02 | 0.06 | 0.09 | 0.59 | 0.03 | 0.01 | 23 | |
| 23-JAN-91 | 48.7 | 1.2 | 107.2 | 4.3 | 100 | 4.40 | -1.80 | 18.3 | 1.20 | 477 | 134 | 0.21 | 0.04 | 0.10 | 0.09 | 0.16 | 0.70 | 0.02 | 0.01 | 19 |
| 30-JAN-91 | 58.0 | 2.6 | 130.1 | 4.8 | 100 | 4.45 | -1.20 | 16.9 | 1.10 | 485 | 137 | 0.25 | 0.03 | 0.13 | 0.14 | 0.22 | 0.70 | 0.02 | 0.02 | 32 |
| 03-FEB-91 | 46.7 | 2.1 | 9.3 | 100 | 4.55 | -1.30 | 17.1 | 1.15 | 494 | 140 | 0.21 | 0.04 | 0.09 | 0.09 | 0.16 | 0.69 | 0.03 | 0.01 | 23 | |
| 08-FEB-91 | 39.8 | 1.5 | 121.7 | 13.4 | 100 | 4.50 | -1.20 | 12.4 | 0.90 | 380 | 113 | 0.18 | 0.04 | 0.17 | 0.15 | 1.20 | 0.03 | 0.02 | 21 | |
| 13-FEB-91 | 41.2 | 3.3 | 95.7 | 4.8 | 100 | 4.58 | -1.20 | 12.4 | 0.90 | 380 | 125 | 0.16 | 0.03 | 0.13 | 0.16 | 0.08 | 0.14 | 0.03 | 0.00 | 23 |
| 20-FEB-91 | 49.0 | 3.0 | 127.8 | 3.5 | 100 | 4.48 | -1.60 | 16.1 | 0.65 | 470 | 125 | 0.16 | 0.03 | 0.08 | 0.08 | 0.07 | 0.14 | 0.50 | 0.06 | 46 |
| 27-FEB-91 | 58.0 | 1.7 | 139.9 | 5.3 | 100 | 4.45 | -1.60 | 13.6 | 0.80 | 482 | 145 | 0.16 | 0.03 | 0.07 | 0.07 | 0.07 | 0.13 | 0.70 | 0.02 | |
| 04-MAR-91 | 49.2 | 0.8 | 133.4 | 1.3 | 100 | 4.62 | -1.20 | 11.5 | 0.50 | 363 | 124 | 0.07 | 0.02 | 0.06 | 0.06 | 0.05 | 0.06 | 0.11 | 0.60 | |
| 08-MAR-91 | 52.0 | 1.7 | 132.3 | 18.8 | 100 | 4.58 | -1.30 | 11.9 | 0.50 | 370 | 120 | 0.08 | 0.02 | 0.05 | 0.06 | 0.06 | 0.18 | 0.70 | 0.02 | |
| 13-MAR-91 | 48.8 | 2.1 | 133.1 | 7.9 | 100 | 4.45 | -0.86 | 9.7 | 0.45 | 305 | 105 | 0.08 | 0.02 | 0.06 | 0.09 | 0.02 | 0.05 | 0.12 | 0.40 | |
| 19-MAR-91 | 41.3 | 2.1 | 130.9 | 9.3 | 100 | 4.63 | -1.10 | 11.0 | 0.55 | 339 | 122 | 0.09 | 0.02 | 0.06 | 0.05 | 0.12 | 0.40 | 0.02 | | |
| 21-MAR-91 | 42.0 | 4.0 | 143.1 | 4.0 | 100 | 4.50 | -1.20 | 12.4 | 0.90 | 380 | 123 | 0.16 | 0.03 | 0.13 | 0.12 | 0.08 | 0.12 | 0.50 | 0.02 | |
| 25-MAR-91 | 40.8 | 2.9 | 133.2 | 11.8 | 100 | 4.77 | -0.84 | 8.8 | 0.40 | 274 | 123 | 0.07 | 0.02 | 0.08 | 0.06 | 0.12 | 0.50 | 0.02 | | |
| 28-MAR-91 | 26.3 | 3.8 | 83.5 | 27.8 | 100 | 4.91 | -0.82 | 6.5 | 0.30 | 217 | 108 | 0.07 | 0.02 | 0.08 | 0.06 | 0.12 | 0.50 | 0.02 | | |
| 02-APR-91 | 37.0 | 1.0 | 122.3 | 6.1 | 100 | 4.91 | -0.52 | 9.2 | 0.40 | 235 | 154 | 0.12 | 0.03 | 0.09 | 0.19 | 0.19 | 0.33 | 1.20 | | |
| 08-APR-91 | 11.5 | 3.1 | 44.5 | 10.5 | 50 | | | | | | | | | | | | | | | |
| 11-APR-91 | 10.3 | 2.1 | 19.3 | 6.1 | 10 | | | | | | | | | | | | | | | |
| 15-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | |
| 20-DEC-91 | 16.7 | 0.6 | 16.3 | 3.5 | 100 | 4.55 | -1.60 | 11.4 | 0.25 | 434 | 37 | 0.02 | 0.00 | 0.03 | 0.12 | 0.25 | 0.40 | 0.01 | 0.00 | 3 |
| 09-JAN-92 | 16.7 | 0.6 | 16.3 | 3.5 | 100 | 4.62 | -1.10 | 13.9 | 0.85 | 445 | 83 | 0.20 | 0.06 | 0.38 | 0.20 | 0.39 | 1.59 | 0.19 | | |
| 11-JAN-92 | 5.8 | 5.8 | 59.1 | 10.6 | 100 | 4.49 | -1.60 | 13.6 | 0.55 | 346 | 103 | 0.09 | 0.02 | 0.06 | 0.08 | 0.18 | 0.50 | 0.03 | 0.01 | 12 |
| 13-JAN-92 | 5.8 | 5.8 | 57.4 | 1.3 | 100 | 4.45 | -1.90 | 18.4 | 1.20 | 437 | 135 | 0.12 | 0.03 | 0.08 | 0.10 | 0.23 | 0.80 | 0.08 | 0.01 | 14 |
| 20-JAN-92 | 43.3 | 1.3 | 79.7 | 13.4 | 100 | 4.42 | -2.10 | 19.4 | 1.40 | 530 | 230 | 0.16 | 0.03 | 0.10 | 0.11 | 0.25 | 0.60 | 0.03 | 0.02 | 0 |
| 06-FEB-92 | 42.7 | 1.3 | 87.7 | 8.7 | 100 | 4.40 | -2.10 | 21.0 | 1.50 | 605 | 248 | 0.19 | 0.04 | 0.08 | 0.20 | 1.00 | 0.23 | 0.02 | 0.02 | 25 |
| 13-FEB-92 | 48.0 | 3.5 | 89.6 | 4.8 | 100 | 4.36 | -2.80 | 22.0 | 1.50 | 647 | 272 | 0.16 | 0.03 | 0.09 | 0.10 | 0.22 | 1.00 | 0.06 | 0.01 | 13 |
| 20-FEB-92 | 54.3 | 2.3 | 105.7 | 15.6 | 100 | 4.40 | -2.00 | 20.1 | 1.35 | 541 | 244 | 0.15 | 0.03 | 0.10 | 0.11 | 0.22 | 0.90 | 0.03 | 0.01 | 23 |
| 27-FEB-92 | 69.5 | 1.3 | 137.8 | 6.6 | 100 | 4.34 | -2.20 | 21.9 | 1.65 | 608 | 74 | 0.18 | 0.04 | 0.13 | 0.10 | 0.23 | 1.00 | 0.04 | 0.02 | 0 |
| 04-MAR-92 | 72.0 | 3.1 | 104.8 | 8.3 | 100 | 4.52 | -1.40 | 15.5 | 1.30 | 380 | 185 | 0.13 | 0.03 | 0.10 | 0.09 | 0.20 | 0.90 | 0.14 | 0.02 | |
| 13-MAR-92 | 63.3 | 2.1 | 172.9 | 12.1 | 100 | 4.60 | -1.20 | 10.4 | 1.20 | 430 | 150 | 0.06 | 0.01 | 0.04 | 0.11 | 0.08 | 0.80 | 0.06 | 0.01 | 6 |
| 19-MAR-92 | 57.0 | 1.0 | 172.9 | 2.3 | 100 | 4.52 | -1.50 | 12.2 | 1.10 | 395 | 221 | 0.10 | 0.02 | 0.07 | 0.08 | 0.17 | 0.70 | 0.14 | 0.01 | 8 |
| 25-MAR-92 | 55.8 | 3.0 | 168.3 | 6.9 | 100 | 4.36 | -1.40 | 13.8 | 1.10 | 441 | 232 | 0.14 | 0.03 | 0.09 | 0.11 | 0.21 | 0.40 | 0.12 | 0.01 | 20 |
| 01-APR-92 | 43.2 | 0.8 | 156.1 | 3.5 | 100 | 4.47 | -1.70 | 15.2 | 1.35 | 420 | 250 | 0.16 | 0.03 | 0.11 | 0.08 | 0.22 | 1.10 | 0.12 | 0.02 | 18 |
| 08-APR-92 | 42.3 | 1.9 | 141.6 | 13.8 | 100 | 4.56 | -1.30 | 12.9 | 0.90 | 385 | 232 | 0.11 | 0.02 | 0.09 | 0.06 | 0.18 | 0.70 | 0.07 | 0.01 | 8 |
| 15-APR-92 | 42.0 | 2.8 | 134.7 | 10.3 | 100 | 4.62 | -1.10 | 13.6 | 1.05 | 393 | 232 | 0.15 | 0.03 | 0.10 | 0.07 | 0.19 | 0.90 | 0.05 | 0.02 | 25 |
| 21-APR-92 | 24.8 | 2.8 | 89.6 | 9.3 | 100 | | | | | | | | | | | | | | | |
| 24-APR-92 | 15.7 | 4.0 | 50.7 | 18.7 | 60 | | | | | | | | | | | | | | | |
| 28-APR-92 | 7.3 | 0.3 | 29.3 | 7.0 | 5 | | | | | | | | | | | | | | | |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | | | | | | |

Table 6 (cont'd)

HARP LAKE SNOW CORE DATA SUMMARY
HPST13

| SAMPLE DATE | SNOW DEPTH MEAN (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. | % COVER | PH (mpH) | ALK. (mg/L) | CHEMICAL PARAMETERS | | | | | | | | | | | | | | |
|-------------|----------------------|-----------------------------|-------|---------|----------|-------------|---|------------------------|----------------|-----------------|-------------------------|-------------------------|-----------------------|------------------------|------------------------|------------|-----------|-----------|-----------|------|----|
| | | | | | | | Conc ²⁵ (mg/m ³) | SO ₄ (mg/L) | Nitrate (mg/L) | Ammonium (mg/L) | Ca ²⁺ (mg/L) | Mg ²⁺ (mg/L) | K ⁺ (mg/L) | Na ⁺ (mg/L) | Cl ⁻ (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | | |
| 21-JAN-88 | 1.4 | 92.7 | 2.3 | 100 | 4.50 | -1.36 | 17.2 | 1.25 | 475 | 153 | 0.38 | 0.08 | 0.06 | 0.23 | | | | | | | |
| 09-FEB-88 | 3.3 | 93.0 | 2.3 | 100 | 4.50 | -1.12 | 12.3 | 0.70 | 391 | 109 | 0.22 | 0.04 | 0.03 | 0.19 | | | | | | | |
| 23-FEB-88 | 73.7 | 161.5 | 13.0 | 100 | 4.49 | -1.90 | 17.3 | 1.05 | 575 | 220 | 0.30 | 0.10 | 0.05 | 0.22 | | | | | | | |
| 08-MAR-88 | 27.0 | 1.3 | 171.4 | 2.6 | 100 | 4.43 | -2.00 | 22.3 | 1.30 | 705 | 275 | 0.32 | 0.06 | 0.05 | 0.25 | | | | | | |
| 15-MAR-88 | 2.5 | 183.6 | 23.2 | 100 | 4.49 | -2.10 | 20.8 | 1.25 | 700 | 310 | 0.26 | 0.05 | 0.05 | 0.22 | | | | | | | |
| 29-MAR-88 | 19.2 | 1.4 | 165.8 | 9.3 | 100 | 4.83 | -0.88 | 8.7 | 0.45 | 305 | 170 | 0.08 | 0.04 | 0.02 | 0.16 | | | | | | |
| 31-MAR-88 | 16.0 | 1.8 | 134.7 | 12.6 | 100 | 4.43 | -2.00 | 22.3 | 1.30 | 705 | 275 | 0.32 | 0.06 | 0.05 | 0.25 | | | | | | |
| 06-APR-88 | 2.8 | 1.4 | 186.5 | 13.2 | 33 | 5.04 | -0.51 | 5.3 | 0.20 | 115 | 135 | 0.06 | 0.08 | 0.02 | 0.13 | | | | | | |
| 08-APR-88 | 1.4 | 0.1 | 3.3 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 12-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| 09-JAN-89 | 25.3 | 3.3 | 36.8 | 10.6 | 100 | 4.64 | -1.20 | 12.3 | 0.75 | 320 | 150 | 0.20 | 0.05 | 0.04 | 0.19 | | | | | | |
| 23-JAN-89 | 37.3 | 0.6 | 76.7 | 0.0 | 100 | 4.46 | -1.60 | 19.5 | 1.40 | 575 | 290 | 0.34 | 0.11 | 0.07 | 0.23 | | | | | | |
| 06-FEB-89 | 39.3 | 0.6 | 61.4 | 6.6 | 100 | 4.34 | -1.20 | 18.0 | 1.50 | 530 | 320 | 0.46 | 0.15 | 0.09 | 0.36 | | | | | | |
| 20-FEB-89 | 67.3 | 2.3 | 115.6 | 12.8 | 100 | 4.43 | -1.80 | 19.9 | 1.30 | 539 | 193 | 0.08 | 0.08 | 0.08 | 0.20 | | | | | | |
| 06-MAR-89 | 67.3 | 1.5 | 142.4 | 27.2 | 100 | 4.36 | -2.20 | 21.1 | 1.40 | 575 | 200 | 0.32 | 0.08 | 0.06 | 0.20 | | | | | | |
| 16-MAR-89 | 5.0 | 2.0 | 127.1 | 16.0 | 100 | 4.50 | -1.50 | 15.1 | 0.95 | 560 | 225 | 0.24 | 0.06 | 0.04 | 0.22 | | | | | | |
| 21-MAR-89 | 78.0 | 4.4 | 183.2 | 7.0 | 100 | 4.54 | -1.50 | 12.2 | 0.65 | 420 | 225 | 0.18 | 0.07 | 0.04 | 0.16 | | | | | | |
| 28-MAR-89 | 40.3 | 4.0 | 104.2 | 6.1 | 100 | 4.75 | -0.86 | 12.2 | 0.65 | 420 | 225 | 0.18 | 0.07 | 0.04 | 0.16 | | | | | | |
| 30-MAR-89 | 31.2 | 0.8 | 90.4 | 12.1 | 100 | 4.60 | -1.60 | 19.5 | 1.40 | 575 | 290 | 0.34 | 0.11 | 0.07 | 0.23 | | | | | | |
| 03-APR-89 | 29.7 | 1.2 | 90.4 | 10.5 | 100 | 5.01 | -0.49 | 7.4 | 0.40 | 233 | 180 | 0.08 | 0.03 | 0.00 | 0.12 | | | | | | |
| 06-APR-89 | 25.3 | 1.5 | 76.2 | 8.7 | 100 | 5.15 | -0.24 | 6.5 | 0.45 | 208 | 185 | 0.32 | 0.06 | 0.03 | 0.12 | | | | | | |
| 10-APR-89 | 25.3 | 1.2 | 65.9 | 5.8 | 100 | 5.15 | -0.24 | 6.5 | 0.45 | 208 | 185 | 0.32 | 0.06 | 0.03 | 0.12 | | | | | | |
| 13-APR-89 | 34.5 | 4.3 | 74.4 | 6.1 | 100 | 4.37 | -1.80 | 21.5 | 0.80 | 666 | 153 | 0.27 | 0.04 | 0.06 | 0.17 | 0.35 | 0.50 | 0.04 | | | |
| 17-APR-89 | 17.3 | 1.2 | 55.2 | 5.8 | 100 | 5.23 | -0.14 | 5.1 | 0.15 | 130 | 105 | 0.06 | 0.08 | 0.02 | 0.11 | 0.30 | 0.80 | 0.02 | | | |
| 21-APR-89 | 13.0 | 3.0 | 32.3 | 7.4 | 100 | 5.33 | -1.70 | 20.7 | 1.00 | 618 | 180 | 0.25 | 0.07 | 0.13 | 0.15 | 0.30 | 0.80 | 0.02 | | | |
| 24-APR-89 | 10.7 | 1.2 | 23.9 | 6.1 | 100 | 5.08 | -0.26 | 6.3 | 0.15 | 115 | 70 | 0.18 | 0.13 | 0.04 | 0.11 | | | | | | |
| 25-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 4.52 | -1.20 | 15.2 | 0.75 | 509 | 127 | 0.31 | 0.07 | 0.10 | 0.19 | 0.60 | 0.04 | 0.01 | | | |
| 2-DEC-89 | 26.3 | 5.3 | 100 | 4.53 | -1.10 | 16.7 | 0.95 | 492 | 180 | 0.30 | 0.05 | 0.08 | 0.10 | 0.21 | 0.60 | 0.03 | 0.01 | 35 | | | |
| 9-DEC-89 | 25.8 | 3.1 | 4.0 | 100 | 4.53 | -1.10 | 16.7 | 0.95 | 630 | 235 | 0.35 | 0.06 | 0.10 | 0.13 | 0.25 | 0.50 | 0.08 | 0.01 | 36 | | |
| 17-DEC-89 | 33.0 | 1.7 | 28.5 | 2.3 | 100 | 4.48 | -1.30 | 17.5 | 0.80 | 666 | 153 | 0.27 | 0.04 | 0.06 | 0.17 | 0.35 | 0.50 | 0.04 | 0.01 | 51 | |
| 8-JAN-90 | 41.8 | 0.8 | 47.6 | 8.4 | 100 | 4.37 | -1.80 | 21.5 | 0.80 | 666 | 153 | 0.27 | 0.04 | 0.06 | 0.17 | 0.35 | 0.50 | 0.04 | 0.01 | 39 | |
| 2-1JAN-90 | 35.5 | 1.3 | 59.1 | 7.0 | 100 | 4.38 | -1.70 | 20.7 | 1.00 | 618 | 180 | 0.25 | 0.07 | 0.13 | 0.15 | 0.30 | 0.80 | 0.02 | 0.00 | 12 | |
| 9-1JAN-90 | 44.0 | 1.0 | 88.1 | 8.3 | 100 | 4.40 | -2.40 | 22.4 | 0.85 | 620 | 203 | 0.25 | 0.08 | 0.16 | 0.10 | 0.30 | 0.70 | 0.03 | 0.01 | 22 | |
| 6-1JAN-90 | 53.8 | 1.0 | 108.7 | 4.0 | 100 | 4.36 | -2.70 | 23.3 | 1.05 | 680 | 261 | 0.23 | 0.04 | 0.06 | 0.12 | 0.20 | 0.90 | 0.02 | 0.01 | 26 | |
| 23-1JAN-90 | 55.0 | 2.0 | 72.1 | 11.5 | 100 | 4.83 | -6.60 | 1.80 | 60.0 | 0.85 | 1800 | 210 | 0.19 | 0.03 | 0.05 | 0.10 | 0.20 | 0.70 | 0.02 | 0.00 | 19 |
| 30-1JAN-90 | 49.3 | 1.3 | 111.8 | 10.6 | 100 | 4.47 | -1.80 | 19.2 | 1.05 | 600 | 215 | 0.22 | 0.04 | 0.09 | 0.10 | 0.21 | 0.70 | 0.02 | 0.00 | 18 | |
| 06-FEB-90 | 49.0 | 1.7 | 127.8 | 10.6 | 100 | 4.48 | -1.80 | 19.8 | 0.90 | 611 | 246 | 0.23 | 0.04 | 0.07 | 0.10 | 0.24 | 0.60 | 0.04 | 0.01 | 38 | |
| 13-FEB-90 | 42.7 | 0.6 | 124.8 | 4.0 | 100 | 4.63 | -1.40 | 15.2 | 0.65 | 494 | 236 | 0.17 | 0.03 | 0.05 | 0.08 | 0.18 | 0.40 | 0.03 | 0.00 | 30 | |
| 20-FEB-90 | 43.3 | 1.2 | 130.9 | 20.8 | 100 | 4.71 | -1.00 | 12.3 | 0.45 | 432 | 222 | 0.20 | 0.04 | 0.18 | 0.15 | 0.27 | 0.60 | 0.05 | 0.00 | 27 | |
| 27-FEB-90 | 56.0 | 1.8 | 137.8 | 4.8 | 100 | 4.50 | -1.80 | 17.5 | 0.80 | 583 | 252 | 0.17 | 0.04 | 0.10 | 0.09 | 0.16 | 0.50 | 0.03 | 0.00 | 24 | |
| 06-MAR-90 | 51.0 | 0.0 | 140.8 | 14.3 | 100 | 4.54 | -1.50 | 16.8 | 0.90 | 564 | 258 | 0.20 | 0.04 | 0.15 | 0.10 | 0.20 | 0.80 | 0.03 | 0.00 | 32 | |
| 12-MAR-90 | 44.7 | 1.5 | 156.5 | 8.1 | 100 | 4.84 | -0.88 | 8.9 | 0.35 | 345 | 199 | 0.07 | 0.02 | 0.06 | 0.07 | 0.18 | 0.70 | 0.04 | 0.00 | 33 | |
| 15-MAR-90 | 28.0 | 3.0 | 83.8 | 8.3 | 100 | 4.91 | -0.58 | 7.3 | 0.30 | 233 | 199 | 0.06 | 0.01 | 0.03 | 0.07 | 0.18 | 0.90 | 0.07 | 0.00 | 67 | |
| 20-MAR-90 | 13.0 | 2.6 | 33.8 | 7.4 | 25 | 4.71 | -0.80 | 8.3 | 0.25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 27-MAR-90 | 6.8 | 0.3 | 6.3 | 9.3 | 25 | 4.45 | -0.80 | 8.3 | 0.25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 03-APR-90 | 16.0 | 4.4 | 44.5 | 8.3 | 25 | 4.50 | -1.80 | 17.5 | 0.80 | 583 | 252 | 0.17 | 0.04 | 0.10 | 0.09 | 0.16 | 0.50 | 0.03 | 0.00 | 24 | |
| 12-APR-90 | 5.7 | 1.2 | 4.8 | 8.3 | 10 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 18-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

Table 7

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. (mm) | COVER % | PH (mg/L) | ALK (mg/L) | COND ₂₅ (µS/L) | SO ₄ (functional) (mg/L) | NITRATE (µM/L) | AMMONIA (µM/L) | CHEMICAL PARAMETERS | | | | | | | | | |
|-------------|-----------------|-----------------------------|-----------|---------|-----------|------------|---------------------------|-------------------------------------|----------------|----------------|---------------------|-----------|----------|-----------|-----------|------------|-----------|-----------|-----------|-----|
| | | | | | | | | | | | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | |
| 12-DEC-90 | 9.8 | 0.3 | 19.3 | 0.0 | 100 | 4.55 | -1.40 | 19.2 | 0.85 | 465 | 125 | 0.20 | 0.03 | 0.05 | 1.18 | 0.60 | 0.04 | 0.00 | 32 | |
| 19-DEC-90 | 14.8 | 2.4 | 27.0 | 2.6 | 100 | 4.61 | -1.10 | 14.6 | 0.50 | 432 | 118 | 0.26 | 0.04 | 0.13 | 0.19 | 0.60 | 0.04 | 0.01 | 38 | |
| 04-JAN-91 | 39.3 | 2.1 | 60.6 | 2.3 | 100 | 4.57 | -1.40 | 15.0 | 0.55 | 449 | 86 | 0.18 | 0.03 | 0.07 | 0.63 | 0.50 | 0.06 | 0.01 | 50 | |
| 09-JAN-91 | 38.3 | 2.4 | 76.6 | 2.3 | 100 | 4.62 | -0.99 | 24.3 | 0.85 | 389 | 83 | 0.26 | 0.06 | 0.20 | 1.93 | 3.65 | 0.90 | 0.09 | 47 | |
| 17-JAN-91 | 41.3 | 1.2 | 86.6 | 4.8 | 100 | 4.47 | -1.40 | 15.2 | 0.70 | 430 | 120 | 0.11 | 0.02 | 0.07 | 0.11 | 0.60 | 0.02 | 0.00 | 18 | |
| 23-JAN-91 | 43.7 | 1.4 | 95.0 | 7.9 | 100 | 4.52 | -1.40 | 19.8 | 1.35 | 484 | 142 | 0.33 | 0.06 | 0.13 | 0.59 | 0.95 | 0.80 | 0.05 | 21 | |
| 30-JAN-91 | 57.3 | 1.2 | 117.9 | 7.9 | 100 | 4.35 | -2.00 | 18.7 | 0.85 | 569 | 132 | 0.17 | 0.03 | 0.04 | 0.12 | 0.23 | 0.50 | 0.03 | 25 | |
| 05-FEB-91 | 43.2 | 0.8 | 110.3 | 1.3 | 100 | 4.45 | -1.90 | 17.2 | 0.85 | 503 | 132 | 0.14 | 0.03 | 0.04 | 0.10 | 0.18 | 0.50 | 0.07 | 0.00 | 49 |
| 08-FEB-91 | 38.8 | 1.9 | 115.6 | 6.9 | 100 | 4.52 | -1.30 | 14.2 | 0.80 | 411 | 126 | 0.07 | 0.10 | 0.20 | 0.34 | 1.50 | 0.03 | 0.01 | 22 | |
| 13-FEB-91 | 43.0 | 1.0 | 109.3 | 7.4 | 100 | 4.52 | -1.30 | 14.2 | 0.80 | 425 | 111 | 0.26 | 0.07 | 0.10 | 0.20 | 0.34 | 0.03 | 0.01 | 22 | |
| 19-FEB-91 | 48.3 | 1.2 | 134.7 | 8.1 | 100 | 4.48 | -1.70 | 14.9 | 0.75 | 436 | 114 | 0.12 | 0.02 | 0.04 | 0.07 | 0.14 | 0.50 | 0.03 | 0.00 | 29 |
| 20-FEB-91 | 52.0 | 0.5 | 138.5 | 6.1 | 100 | 4.44 | -1.60 | 16.6 | 0.85 | 491 | 159 | 0.16 | 0.03 | 0.05 | 0.17 | 0.29 | 0.50 | 0.04 | 0.01 | 32 |
| 27-FEB-91 | 52.0 | 0.5 | 130.1 | 13.0 | 100 | 4.86 | -0.61 | 16.3 | 0.60 | 348 | 124 | 0.23 | 0.04 | 0.17 | 1.26 | 1.95 | 0.60 | 0.02 | 0.00 | 29 |
| 04-MAR-91 | 40.0 | 1.8 | 137.0 | 9.3 | 100 | 4.69 | -1.10 | 9.5 | 0.35 | 300 | 97 | 0.08 | 0.02 | 0.07 | 0.06 | 0.12 | 0.70 | 0.03 | 0.00 | 25 |
| 08-MAR-91 | 43.0 | 0.0 | 139.3 | 0.8 | 100 | 4.71 | -1.00 | 10.0 | 0.40 | 300 | 105 | 0.08 | 0.02 | 0.04 | 0.16 | 0.88 | 0.60 | 0.03 | 0.00 | 25 |
| 13-MAR-91 | 39.3 | 0.8 | 109.3 | 3.5 | 100 | 4.94 | -0.60 | 5.8 | 0.15 | 194 | 93 | 0.03 | 0.01 | 0.02 | 0.06 | 0.13 | 0.20 | 0.00 | 0.00 | 25 |
| 19-MAR-91 | 27.2 | 1.0 | 103.4 | 3.5 | 100 | 4.52 | -1.30 | 12.8 | 0.00 | 435 | 172 | 0.45 | 0.35 | 0.17 | 0.94 | 0.13 | 0.10 | 0.00 | 0.00 | 25 |
| 21-MAR-91 | 35.0 | 2.1 | 108.0 | 8.7 | 100 | 5.01 | -0.45 | 5.1 | 0.35 | 172 | 94 | 0.20 | 0.02 | 0.19 | 0.09 | 0.09 | 0.50 | 0.03 | 0.00 | 29 |
| 23-MAR-91 | 29.7 | 2.1 | 108.0 | 8.7 | 100 | 5.31 | -0.18 | 4.2 | 0.20 | 110 | 98 | 0.16 | 0.02 | 0.19 | 0.09 | 0.09 | 0.50 | 0.03 | 0.00 | 29 |
| 28-MAR-91 | 23.3 | 1.4 | 50.7 | 7.0 | 100 | 5.31 | -0.18 | 4.2 | 0.20 | 110 | 98 | 0.16 | 0.02 | 0.19 | 0.09 | 0.09 | 0.50 | 0.03 | 0.00 | 29 |
| 02-APR-91 | 16.7 | 0.6 | 58.3 | 2.3 | 90 | 5.03 | -0.45 | 5.8 | 0.25 | 148 | 89 | 0.08 | 0.02 | 0.06 | 0.07 | 0.14 | 0.60 | 0.03 | 0.00 | 29 |
| 03-APR-91 | 11.0 | 3.6 | 36.1 | 19.5 | 75 | 5.03 | -0.45 | 5.8 | 0.25 | 148 | 89 | 0.08 | 0.02 | 0.06 | 0.07 | 0.14 | 0.60 | 0.03 | 0.00 | 29 |
| 08-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 19-DEC-91 | 15.7 | 0.3 | 10.9 | 1.3 | 100 | 4.72 | -0.84 | 7.5 | 0.25 | 299 | 38 | 0.04 | 0.01 | 0.03 | 0.20 | 0.34 | 0.20 | 0.03 | 0.00 | 4 |
| 09-JAN-92 | 11.8 | 1.2 | 20.9 | 2.6 | 100 | 4.69 | -1.00 | 13.6 | 0.35 | 342 | 76 | 0.10 | 0.03 | 0.06 | 0.06 | 0.15 | 0.70 | 0.17 | 0.01 | 13 |
| 17-JAN-92 | 29.8 | 0.3 | 48.4 | 7.0 | 100 | 4.57 | -1.30 | 11.9 | 0.75 | 330 | 93 | 0.11 | 0.02 | 0.07 | 0.12 | 0.21 | 0.50 | 0.03 | 0.00 | 13 |
| 21-JAN-92 | 30.3 | 0.3 | 53.0 | 9.3 | 100 | 4.62 | -1.20 | 11.4 | 0.75 | 349 | 104 | 0.11 | 0.02 | 0.05 | 0.21 | 0.36 | 0.50 | 0.03 | 0.00 | 16 |
| 30-JAN-92 | 38.7 | 2.5 | 79.7 | 11.8 | 100 | 4.44 | -2.00 | 18.5 | 1.20 | 345 | 170 | 0.19 | 0.03 | 0.09 | 0.23 | 0.39 | 1.00 | 0.05 | 0.01 | 6 |
| 06-FEB-92 | 35.0 | 1.8 | 63.7 | 7.4 | 100 | 4.41 | -2.10 | 20.3 | 1.35 | 602 | 200 | 0.23 | 0.04 | 0.12 | 0.20 | 0.38 | 0.90 | 0.08 | 0.01 | 18 |
| 13-FEB-92 | 39.7 | 3.5 | 84.3 | 5.8 | 100 | 4.45 | -2.40 | 20.9 | 1.35 | 704 | 231 | 0.32 | 0.05 | 0.10 | 0.24 | 0.44 | 0.90 | 0.12 | 0.01 | 29 |
| 20-FEB-92 | 46.0 | 1.7 | 98.8 | 1.3 | 100 | 4.35 | -2.30 | 22.1 | 1.35 | 615 | 224 | 0.19 | 0.03 | 0.07 | 0.19 | 0.37 | 0.90 | 0.04 | 0.01 | 4 |
| 27-FEB-92 | 57.3 | 4.4 | 128.6 | 11.5 | 100 | 4.33 | -2.30 | 22.8 | 1.40 | 603 | 220 | 0.19 | 0.03 | 0.07 | 0.35 | 0.61 | 0.90 | 0.05 | 0.01 | 6 |
| 04-MAR-92 | 61.0 | 2.3 | 143.9 | 1.3 | 100 | 4.38 | -2.10 | 20.7 | 1.40 | 570 | 210 | 0.20 | 0.04 | 0.07 | 0.16 | 0.33 | 0.80 | 0.03 | 0.01 | 13 |
| 13-MAR-92 | 38.3 | 0.6 | 148.3 | 3.3 | 100 | 4.41 | -1.90 | 16.9 | 1.23 | 445 | 180 | 0.10 | 0.02 | 0.04 | 0.07 | 0.18 | 0.60 | 0.04 | 0.00 | 6 |
| 19-MAR-92 | 56.8 | 2.9 | 169.9 | 5.3 | 100 | 4.64 | -1.10 | 8.9 | 0.75 | 273 | 135 | 0.06 | 0.01 | 0.03 | 0.04 | 0.11 | 0.50 | 0.03 | 0.00 | 0 |
| 25-MAR-92 | 51.7 | 0.0 | 164.5 | 9.3 | 100 | 4.55 | -1.50 | 13.8 | 0.95 | 418 | 180 | 0.14 | 0.03 | 0.08 | 0.12 | 0.24 | 0.60 | 0.06 | 0.01 | 14 |
| 01-APR-92 | 40.0 | 0.0 | 131.7 | 12.8 | 100 | 4.55 | -1.30 | 12.4 | 0.85 | 386 | 179 | 0.14 | 0.02 | 0.06 | 0.12 | 0.27 | 0.70 | 0.14 | 0.01 | 20 |
| 08-APR-92 | 24.7 | 4.6 | 76.6 | 19.6 | 100 | 4.73 | -0.97 | 7.2 | 0.35 | 207 | 99 | 0.04 | 0.01 | 0.08 | 0.06 | 0.15 | 1.00 | 0.07 | 0.00 | 6 |
| 15-APR-92 | 22.0 | 3.0 | 77.4 | 14.7 | 100 | 5.22 | -0.15 | 4.1 | 0.20 | 159 | 127 | 0.04 | 0.01 | 0.02 | 0.12 | 0.20 | 0.44 | 0.01 | 0.01 | 190 |
| 21-APR-92 | 8.5 | 1.8 | 27.7 | 5.3 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 24-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

HARP LAKE SNOW CORE DATA SUMMARY
HPST14

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | S.D. | % | CHEMICAL PARAMETERS | | | | | | | | | | | |
|-------------|-----------------|------------------------|-------|------|---------------------|-------|------------|---------------|------------|----------------|-----------------|-----------|-----------|----------|-----------|-----------|
| | | | | | COVER | PH | ALK (mg/L) | COND25 (mg/L) | SO4 (mg/L) | Nitrate (mg/L) | Ammonium (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) |
| 21-JAN-88 | 38.0 | 4.4 | 93.0 | 9.2 | 100 | 4.52 | -1.70 | 16.1 | 1.20 | 440 | 170 | 0.32 | 0.07 | 0.05 | 0.17 | |
| 09-FEB-88 | 43.0 | 1.7 | 94.2 | 8.0 | 100 | 4.66 | -1.31 | 13.0 | 0.80 | 408 | 170 | 0.20 | 0.08 | 0.04 | 0.18 | |
| 23-FEB-88 | 83.3 | 2.5 | 180.6 | 14.7 | 100 | 4.45 | -2.09 | 21.8 | 1.25 | 635 | 260 | 0.30 | 0.08 | 0.05 | 0.19 | |
| 08-MAR-88 | 32.3 | 0.8 | 204.3 | 1.3 | 100 | 4.41 | -3.10 | 21.7 | 1.35 | 690 | 245 | 0.38 | 0.10 | 0.06 | 0.20 | |
| 15-MAR-88 | 34.6 | 0.6 | 242.5 | 8.0 | 100 | 4.60 | -1.40 | 17.4 | 1.40 | 650 | 210 | 0.54 | 0.20 | 0.11 | 0.19 | |
| 29-MAR-88 | 25.3 | 0.4 | 212.7 | 15.3 | 100 | 4.71 | -1.20 | 13.9 | 0.90 | 435 | 220 | 0.24 | 0.08 | 0.04 | 0.20 | |
| 31-MAR-88 | 23.1 | 0.1 | 198.9 | 5.8 | 100 | 4.96 | -0.69 | 6.7 | 0.40 | 200 | 125 | 0.12 | 0.09 | 0.02 | 0.12 | |
| 06-APR-88 | 13.3 | 0.8 | 114.1 | 7.0 | 100 | 4.96 | -0.69 | 6.7 | 0.40 | 200 | 125 | 0.12 | 0.09 | 0.02 | 0.12 | |
| 08-APR-88 | 11.4 | 1.4 | 83.8 | 8.3 | 100 | 5.15 | -0.57 | 5.1 | 0.20 | 165 | 160 | 0.06 | 0.05 | 0.01 | 0.10 | |
| 12-APR-88 | 6.6 | 0.7 | 54.5 | 5.3 | 67 | 5.15 | -0.57 | 5.1 | 0.20 | 165 | 160 | 0.06 | 0.05 | 0.01 | 0.10 | |
| 14-APR-88 | 3.0 | 0.7 | 20.9 | 4.8 | 33 | 4.8 | -0.33 | 4.8 | 0.43 | 160 | 165 | 0.10 | 0.04 | 0.02 | 0.11 | |
| 19-APR-88 | 1.6 | 42.3 | 15.0 | 10 | 5.23 | -0.33 | 4.8 | 0.43 | 160 | 165 | 0.10 | 0.04 | 0.02 | 0.11 | | |
| 21-APR-88 | 7.3 | 0.7 | 50.7 | 8.7 | 10 | 5.0 | -0.33 | 4.8 | 0.43 | 160 | 165 | 0.10 | 0.04 | 0.02 | 0.11 | |
| 22-APR-88 | 9.1 | 1.0 | 50.0 | 0.0 | 0.0 | 0.0 | -0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 09-JAN-89 | 37.0 | 3.0 | 43.8 | 9.5 | 100 | 4.70 | -1.10 | 11.5 | 0.83 | 345 | 155 | 0.32 | 0.17 | 0.06 | 0.16 | |
| 23-JAN-89 | 53.7 | 2.1 | 117.9 | 4.0 | 100 | 4.50 | -1.50 | 15.7 | 1.15 | 505 | 265 | 0.28 | 0.08 | 0.05 | 0.23 | |
| 06-FEB-89 | 59.7 | 0.6 | 111.8 | 7.0 | 100 | 4.48 | -1.70 | 18.2 | 1.20 | 535 | 310 | 0.34 | 0.10 | 0.06 | 0.68 | |
| 20-FEB-89 | 87.7 | 6.5 | 167.6 | 6.6 | 100 | 4.84 | -0.67 | 15.2 | 1.30 | 564 | 170 | 0.62 | 0.46 | 0.16 | 0.19 | |
| 06-MAR-89 | 85.0 | 1.0 | 176.8 | 31.1 | 100 | 4.39 | -2.00 | 20.5 | 1.45 | 626 | 230 | 0.34 | 0.11 | 0.07 | 0.20 | |
| 16-MAR-89 | 71.3 | 1.5 | 195.1 | 24.5 | 100 | 4.49 | -1.60 | 15.5 | 1.15 | 550 | 215 | 0.30 | 0.06 | 0.06 | 0.20 | |
| 22-APR-89 | 89.0 | 5.7 | 227.2 | 4.8 | 100 | 4.49 | -1.10 | 13.4 | 0.63 | 400 | 175 | 0.18 | 0.07 | 0.04 | 0.16 | |
| 28-MAR-89 | 64.0 | 5.3 | 192.0 | 10.8 | 100 | 4.68 | -1.10 | 13.4 | 0.63 | 400 | 175 | 0.18 | 0.07 | 0.04 | 0.16 | |
| 30-MAR-89 | 60.3 | 1.5 | 183.6 | 23.9 | 100 | 5.04 | -0.67 | 7.8 | 0.45 | 248 | 160 | 0.18 | 0.08 | 0.00 | 0.10 | |
| 03-APR-89 | 53.7 | 1.5 | 162.2 | 36.6 | 100 | 5.04 | -0.67 | 7.8 | 0.45 | 248 | 160 | 0.18 | 0.08 | 0.00 | 0.10 | |
| 06-APR-89 | 54.0 | 2.0 | 161.5 | 21.0 | 100 | 5.07 | -0.37 | 9.9 | 0.50 | 248 | 165 | 0.20 | 0.14 | 0.03 | 0.11 | |
| 10-APR-89 | 48.7 | 0.6 | 131.7 | 18.2 | 100 | 5.07 | -0.37 | 9.9 | 0.50 | 248 | 165 | 0.20 | 0.14 | 0.03 | 0.11 | |
| 13-APR-89 | 56.5 | 0.9 | 150.0 | 15.9 | 100 | 5.27 | -0.06 | 6.2 | 0.35 | 235 | 155 | 0.26 | 0.06 | 0.03 | 0.12 | |
| 17-APR-89 | 44.3 | 2.9 | 231.1 | 100 | 5.27 | -0.06 | 6.2 | 0.35 | 235 | 155 | 0.26 | 0.06 | 0.03 | 0.12 | | |
| 21-APR-89 | 40.0 | 1.0 | 140.8 | 4.6 | 100 | 5.17 | -0.30 | 6.2 | 0.40 | 210 | 155 | 0.12 | 0.06 | 0.02 | 0.13 | |
| 24-APR-89 | 33.0 | 2.6 | 114.9 | 6.6 | 100 | 5.17 | -0.30 | 6.2 | 0.40 | 210 | 155 | 0.12 | 0.06 | 0.02 | 0.13 | |
| 27-APR-89 | 12.3 | 1.2 | 36.1 | 7.0 | 50 | 5.17 | -0.30 | 6.2 | 0.40 | 210 | 155 | 0.12 | 0.06 | 0.02 | 0.13 | |
| 01-MAY-89 | 21.7 | 2.3 | 63.2 | 1.5 | 100 | 5.07 | -0.37 | 9.9 | 0.50 | 248 | 165 | 0.20 | 0.14 | 0.03 | 0.11 | |
| 02-MAY-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 05-DEC-89 | 28.2 | 1.4 | 35.4 | 2.3 | 100 | 4.50 | -1.30 | 14.3 | 0.80 | 569 | 118 | 0.28 | 0.07 | 0.15 | 0.06 | |
| 12-DEC-89 | 28.3 | 1.5 | 30.0 | 4.8 | 100 | 4.43 | -1.40 | 16.7 | 0.93 | 494 | 180 | 0.26 | 0.03 | 0.11 | 0.04 | |
| 19-DEC-89 | 42.5 | 3.8 | 31.6 | 11.5 | 100 | 4.47 | -1.40 | 16.1 | 1.00 | 640 | 218 | 0.34 | 0.06 | 0.11 | 0.22 | |
| 28-DEC-89 | 43.3 | 3.1 | 52.2 | 7.4 | 100 | 4.35 | -1.90 | 14.0 | 20.1 | 0.80 | 151 | 0.24 | 0.05 | 0.12 | 0.26 | |
| 02-JAN-90 | 43.7 | 1.5 | 70.5 | 3.5 | 100 | 4.40 | -1.60 | 20.3 | 0.90 | 637 | 142 | 0.32 | 0.07 | 0.16 | 0.11 | |
| 09-JAN-90 | 52.5 | 2.8 | 85.0 | 12.6 | 100 | 4.44 | -2.10 | 19.9 | 0.90 | 580 | 187 | 0.27 | 0.08 | 0.28 | 0.10 | |
| 16-JAN-90 | 66.0 | 2.6 | 122.5 | 16.0 | 100 | 4.49 | -2.00 | 19.6 | 0.85 | 600 | 218 | 0.22 | 0.05 | 0.23 | 0.14 | |
| 23-JAN-90 | 68.0 | 2.0 | 85.8 | 0.0 | 100 | 4.51 | -1.30 | 18.1 | 0.90 | 560 | 217 | 0.15 | 0.03 | 0.15 | 0.04 | |
| 30-JAN-90 | 59.7 | 3.4 | 151.3 | 9.3 | 100 | 4.58 | -1.50 | 16.6 | 0.80 | 520 | 116 | 0.24 | 0.08 | 0.18 | 0.06 | |
| 06-FEB-90 | 51.3 | 4.9 | 143.9 | 7.0 | 100 | 4.52 | -1.60 | 18.0 | 0.90 | 587 | 244 | 0.19 | 0.04 | 0.12 | 0.06 | |
| 13-FEB-90 | 51.3 | 2.3 | 151.7 | 13.4 | 100 | 4.60 | -1.50 | 17.2 | 1.03 | 579 | 235 | 0.25 | 0.03 | 0.16 | 0.07 | |
| 20-FEB-90 | 56.3 | 2.9 | 147.7 | 8.3 | 100 | 4.58 | -1.20 | 17.9 | 1.00 | 596 | 270 | 0.24 | 0.04 | 0.16 | 0.07 | |
| 27-FEB-90 | 73.0 | 1.0 | 185.2 | 27.7 | 100 | 4.56 | -1.40 | 16.1 | 0.80 | 552 | 247 | 0.18 | 0.04 | 0.14 | 0.10 | |
| 06-MAR-90 | 70.2 | 2.0 | 183.6 | 12.6 | 100 | 4.55 | -2.20 | 14.9 | 1.00 | 533 | 270 | 0.23 | 0.05 | 0.16 | 0.10 | |
| 12-MAR-90 | 64.0 | 1.7 | 202.0 | 3.5 | 100 | 4.55 | -2.20 | 14.9 | 1.00 | 533 | 270 | 0.23 | 0.05 | 0.16 | 0.10 | |

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. (mm) | COVER (%) | PH | ALK (mg/L) | COND25 (µS/cm) | SO4 (mg/L) | CHEMICAL PARAMETERS | | | | | | | | | |
|-------------|-----------------|-----------------------------|-----------|-----------|------|------------|----------------|------------|---------------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|-----------|
| | | | | | | | | | Ammonia (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fo (mg/L) | Mn (mg/L) | Al (mg/L) |
| 15-MAR-90 | 49.7 | 0.6 | 159.9 | 31.2 | 100 | 4.83 | -0.67 | 9.7 | 0.45 | 382 | 220 | 0.11 | 0.02 | 0.10 | 0.16 | 0.30 | 0.05 | 0.00 |
| 20-MAR-90 | 37.3 | 1.2 | 126.3 | 2.6 | 100 | 4.85 | -0.87 | 9.6 | 0.50 | 378 | 204 | 0.11 | 0.03 | 0.12 | 0.14 | 0.23 | 0.40 | 0.04 |
| 27-MAR-90 | 37.2 | 2.5 | 118.7 | 8.1 | 75 | 4.77 | -0.75 | 10.8 | 0.50 | 385 | 179 | 0.00 | 0.03 | 0.12 | 0.23 | 0.40 | 0.03 | 0.00 |
| 03-APR-90 | 30.7 | 6.3 | 108.7 | 11.5 | 75 | 4.75 | -0.75 | 10.8 | 0.50 | 385 | 179 | 0.00 | 0.03 | 0.16 | 0.23 | 0.40 | 0.03 | 0.00 |
| 12-APR-90 | 23.3 | 3.5 | 76.6 | 10.5 | 75 | 4.75 | -0.75 | 10.8 | 0.50 | 385 | 179 | 0.00 | 0.03 | 0.16 | 0.23 | 0.40 | 0.03 | 0.00 |
| 18-APR-90 | 36.3 | 2.5 | 111.8 | 9.3 | 75 | 4.75 | -0.75 | 10.8 | 0.50 | 385 | 179 | 0.00 | 0.03 | 0.16 | 0.23 | 0.40 | 0.03 | 0.00 |
| 01-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12-DEC-90 | 15.0 | 0.0 | 2.7 | 2.6 | 100 | 4.58 | -1.40 | 19.6 | 0.85 | 439 | 117 | 0.22 | 0.04 | 0.07 | 0.94 | 1.42 | 0.30 | 0.04 |
| 19-DEC-90 | 18.2 | 0.3 | 27.0 | 5.8 | -100 | 4.36 | -1.30 | 14.1 | 0.85 | 394 | 111 | 0.18 | 0.04 | 0.07 | 0.76 | 1.17 | 0.28 | 0.40 |
| 04-JAN-91 | 47.7 | 0.6 | 78.2 | 1.3 | 100 | 4.71 | -1.00 | 12.0 | 0.65 | 350 | 92 | 0.22 | 0.06 | 0.26 | 0.36 | 0.60 | 0.90 | 0.05 |
| 09-JAN-91 | 47.7 | 5.9 | 88.9 | 1.3 | 100 | 4.63 | -0.90 | 15.2 | 0.60 | 389 | 77 | 0.19 | 0.04 | 0.07 | 1.00 | 1.24 | 0.40 | 0.01 |
| 17-JAN-91 | 43.7 | 1.2 | 105.7 | 17.2 | 100 | 4.45 | -1.60 | 15.7 | 0.70 | 463 | 104 | 0.20 | 0.04 | 0.08 | 0.97 | 1.20 | 0.60 | 0.03 |
| 23-JAN-91 | 45.3 | 3.1 | 82.0 | 9.5 | 100 | 4.45 | -1.80 | 17.6 | 0.95 | 476 | 119 | 0.14 | 0.03 | 0.08 | 0.89 | 1.16 | 0.40 | 0.01 |
| 30-JAN-91 | 61.0 | 3.5 | 108.0 | 9.5 | 100 | 4.41 | -1.50 | 19.9 | 0.90 | 568 | 120 | 0.21 | 0.04 | 0.06 | 0.44 | 0.35 | 0.50 | 0.01 |
| 05-FEB-91 | 48.0 | 4.0 | 118.7 | 13.2 | 100 | 4.36 | -1.90 | 18.3 | 1.00 | 529 | 119 | 0.17 | 0.05 | 0.07 | 0.16 | 0.30 | 0.20 | 0.01 |
| 08-FEB-91 | 44.7 | 3.5 | 124.0 | 4.8 | 100 | 4.41 | -1.80 | 16.5 | 0.95 | 501 | 126 | 0.17 | 0.03 | 0.06 | 0.11 | 0.22 | 0.50 | 0.01 |
| 13-FEB-91 | 52.3 | 4.7 | 120.2 | 17.9 | 100 | 4.41 | -1.80 | 16.5 | 0.95 | 501 | 126 | 0.17 | 0.03 | 0.06 | 0.11 | 0.22 | 0.50 | 0.01 |
| 20-FEB-91 | 54.7 | 1.2 | 143.5 | 2.6 | 100 | 4.44 | -1.70 | 15.6 | 0.75 | 483 | 120 | 0.16 | 0.03 | 0.05 | 0.10 | 0.19 | 0.40 | 0.03 |
| 27-FEB-91 | 57.7 | 1.0 | 148.5 | 7.4 | 100 | 4.43 | -1.70 | 15.6 | 0.75 | 485 | 135 | 0.16 | 0.04 | 0.06 | 0.07 | 0.15 | 0.40 | 0.03 |
| 04-MAR-91 | 49.0 | 1.0 | 136.3 | 14.3 | 100 | 4.63 | -1.10 | 11.4 | 0.50 | 378 | 107 | 0.18 | 0.05 | 0.08 | 0.15 | 0.28 | 1.10 | 0.01 |
| 08-MAR-91 | 54.7 | 0.6 | 149.2 | 17.5 | 100 | 4.51 | -1.50 | 13.3 | 0.70 | 460 | 120 | 0.29 | 0.03 | 0.15 | 0.39 | 0.57 | 2.00 | 0.01 |
| 13-MAR-91 | 54.2 | 0.8 | 157.6 | 1.3 | 100 | 4.52 | -1.50 | 14.6 | 0.70 | 490 | 120 | 0.16 | 0.04 | 0.11 | 0.09 | 0.20 | 0.30 | 0.01 |
| 19-MAR-91 | 48.3 | 0.8 | 160.7 | 16.1 | 100 | 4.67 | -1.10 | 9.8 | 0.40 | 316 | 102 | 0.08 | 0.02 | 0.04 | 0.08 | 0.13 | 0.30 | 0.01 |
| 21-MAR-91 | 55.0 | 2.6 | 172.2 | 13.0 | 100 | 4.41 | -1.00 | 12.0 | 0.90 | 501 | 126 | 0.17 | 0.03 | 0.06 | 0.11 | 0.22 | 0.50 | 0.01 |
| 25-MAR-91 | 47.3 | 4.0 | 170.6 | 11.5 | 100 | 4.75 | -0.92 | 7.9 | 0.00 | 269 | 98 | 0.12 | 0.03 | 0.05 | 0.12 | 0.16 | 0.30 | 0.01 |
| 28-MAR-91 | 42.2 | 1.4 | 137.8 | 11.3 | 100 | 4.75 | -0.63 | 5.0 | 0.30 | 203 | 99 | 0.11 | 0.02 | 0.05 | 0.11 | 0.19 | 0.40 | 0.01 |
| 02-APR-91 | 43.0 | 2.8 | 156.1 | 5.8 | 100 | 4.95 | -0.58 | 7.2 | 0.35 | 222 | 99 | 0.11 | 0.02 | 0.05 | 0.11 | 0.19 | 0.40 | 0.01 |
| 08-APR-91 | 34.0 | 6.1 | 126.3 | 21.3 | 100 | 4.51 | -1.00 | 10.0 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11-APR-91 | 52.5 | 0.0 | 90.4 | 4.0 | 75 | 4.51 | -1.00 | 1.5 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15-APR-91 | 13.3 | 2.9 | 33.1 | 4.0 | 10 | 4.47 | -1.30 | 18.2 | 1.15 | 534 | 179 | 0.19 | 0.04 | 0.12 | 0.09 | 0.22 | 0.90 | 0.01 |
| 18-APR-91 | 6.0 | 1.8 | 19.3 | 4.0 | 10 | 4.47 | -1.30 | 18.2 | 1.15 | 534 | 179 | 0.19 | 0.04 | 0.12 | 0.09 | 0.22 | 0.90 | 0.01 |
| 19-DEC-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 09-JAN-92 | 19.7 | 3.8 | 41.5 | 5.8 | 100 | 4.64 | -1.10 | 12.4 | 0.80 | 363 | 82 | 0.17 | 0.04 | 0.16 | 0.13 | 0.25 | 0.50 | 0.05 |
| 17-JAN-92 | 33.2 | 4.2 | 62.1 | 3.5 | 100 | 4.67 | -1.00 | 9.4 | 0.65 | 277 | 74 | 0.11 | 0.03 | 0.14 | 0.09 | 0.17 | 0.70 | 0.09 |
| 23-JAN-92 | 35.2 | 0.8 | 57.5 | 5.8 | 100 | 4.55 | -1.60 | 11.4 | 0.75 | 384 | 169 | 0.13 | 0.02 | 0.07 | 0.17 | 0.31 | 0.50 | 0.06 |
| 30-JAN-92 | 46.7 | 1.5 | 141.1 | 23.1 | 100 | 4.51 | -1.60 | 15.9 | 1.15 | 470 | 140 | 0.17 | 0.04 | 0.15 | 0.11 | 0.24 | 0.60 | 0.13 |
| 06-FEB-92 | 46.8 | 4.7 | 79.7 | 26.1 | 100 | 4.47 | -1.30 | 18.2 | 1.15 | 534 | 179 | 0.19 | 0.04 | 0.12 | 0.09 | 0.22 | 0.90 | 0.01 |
| 18-FEB-92 | 54.3 | 0.6 | 111.0 | 6.1 | 100 | 4.45 | -1.90 | 19.9 | 1.40 | 636 | 237 | 0.29 | 0.03 | 0.15 | 0.12 | 0.28 | 1.20 | 0.03 |
| 20-FEB-92 | 51.7 | 0.6 | 123.3 | 5.3 | 100 | 4.41 | -2.00 | 20.4 | 1.40 | 601 | 214 | 0.30 | 0.06 | 0.14 | 0.13 | 0.31 | 1.20 | 0.03 |
| 09-MAR-92 | 63.5 | 1.7 | 33.5 | 16.6 | 100 | 4.46 | -1.70 | 18.2 | 1.35 | 538 | 203 | 0.24 | 0.05 | 0.11 | 0.14 | 0.30 | 1.30 | 0.02 |
| 04-MAR-92 | 81.3 | 0.6 | 72.2 | 5.8 | 100 | 4.47 | -1.60 | 18.6 | 1.40 | 560 | 200 | 0.29 | 0.06 | 0.17 | 0.11 | 0.36 | 1.00 | 0.01 |
| 13-MAR-92 | 66.7 | 1.5 | 88.2 | 13.4 | 100 | 4.61 | -1.10 | 10.7 | 0.90 | 235 | 116 | 0.06 | 0.01 | 0.12 | 0.05 | 0.12 | 0.50 | 0.07 |
| 19-MAR-92 | 63.2 | 1.0 | 90.5 | 1.3 | 100 | 4.60 | -1.20 | 8.4 | 0.95 | 296 | 141 | 0.10 | 0.02 | 0.09 | 0.09 | 0.17 | 0.60 | 0.07 |
| 25-MAR-92 | 64.5 | 2.6 | 121.3 | 10.6 | 100 | 4.72 | -1.00 | 8.9 | 0.73 | 318 | 152 | 0.12 | 0.03 | 0.06 | 0.15 | 0.30 | 0.60 | 0.01 |
| 01-APR-92 | 53.8 | 0.8 | 208.6 | 6.6 | 100 | 4.61 | -0.85 | 8.7 | 0.85 | 308 | 147 | 0.09 | 0.02 | 0.08 | 0.19 | 0.26 | 0.60 | 0.09 |
| 08-APR-92 | 49.2 | 0.3 | 211.1 | 7.4 | 100 | 4.91 | -0.59 | 8.7 | 0.70 | 266 | 143 | 0.09 | 0.02 | 0.09 | 0.21 | 0.43 | 1.20 | 0.07 |
| 15-APR-92 | 48.3 | 2.8 | 180.6 | 13.8 | 100 | 5.07 | -0.32 | 5.6 | 0.30 | 169 | 113 | 0.07 | 0.01 | 0.09 | 0.14 | 0.26 | 1.50 | 0.02 |
| 21-APR-92 | 33.8 | 2.3 | 127.1 | 10.0 | 100 | 5.49 | 0.14 | 4.8 | 0.20 | 134 | 126 | 0.13 | 0.02 | 0.08 | 0.11 | 0.23 | 0.50 | 0.12 |
| 24-APR-92 | 21.7 | 3.8 | 27.6 | 7.5 | 100 | 5.49 | 0.14 | 4.8 | 0.20 | 134 | 126 | 0.13 | 0.02 | 0.08 | 0.11 | 0.23 | 0.50 | 0.12 |
| 28-APR-92 | 10.3 | 2.3 | 22.7 | 12.6 | 100 | 5.49 | 0.14 | 4.8 | 0.20 | 134 | 126 | 0.13 | 0.02 | 0.08 | 0.11 | 0.23 | 0.50 | 0.12 |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 8 (cont'd)

HARP LAKE SNOW CORE DATA SUMMARY
HPST16

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | WATER EQUIVALENCE S.D. (mm) | % COVER | PH (mg/L) | ALK. (mg/L) | CHEMICAL PARAMETERS | | | | | | | | |
|-------------|-----------------|-----------------------------|-----------------------------|---------|-----------|-------------|-------------------------|------------------------|-------------------------|-----------------------|-------------------------------------|------------|-----------|-----------|------|
| | | | | | | | Ca ²⁺ (mg/L) | Na ⁺ (mg/L) | Mg ²⁺ (mg/L) | K ⁺ (mg/L) | NH ₄ ⁺ (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | |
| 21-JAN-88 | 6.8 | 92.8 | 13.6 | 100 | 4.70 | -1.10 | 12.3 | 1.30 | 423 | 113 | 0.46 | 0.34 | 0.07 | 0.53 | |
| 09-FEB-88 | 6.5 | 110.3 | 5.8 | 100 | 4.47 | -1.30 | 15.9 | 1.15 | 467 | 170 | 0.32 | * 0.08 | 0.05 | <0.21 | |
| 23-FEB-88 | 80.3 | 183.2 | 13.0 | 100 | 4.47 | -2.00 | 18.6 | 1.15 | 245 | 245 | 0.28 | * 0.08 | 0.05 | 0.19 | |
| 08-MAR-88 | 30.2 | 3.8 | 201.2 | 27.6 | 100 | 4.49 | -1.30 | 20.8 | 1.15 | 680 | 295 | 0.34 | 0.06 | 0.05 | 0.25 |
| 15-MAR-88 | 32.0 | 2.1 | 216.5 | 12.8 | 100 | 4.49 | -2.20 | 19.3 | 1.25 | 655 | 295 | 0.36 | 0.08 | 0.06 | 0.20 |
| 29-MAR-88 | 25.1 | 3.0 | 227.2 | 22.6 | 100 | 4.76 | -1.10 | 11.2 | 0.20 | 370 | 195 | 0.16 | 0.03 | 0.03 | 0.16 |
| 23-JAN-88 | 23.2 | 203.8 | 23.2 | 100 | 5.03 | -0.49 | 6.7 | 0.30 | 205 | 153 | 0.10 | 0.03 | 0.01 | 0.12 | |
| 06-APR-88 | 14.1 | 2.9 | 128.6 | 28.9 | 100 | 5.18 | -0.40 | 5.2 | 0.20 | 170 | 155 | 0.10 | 0.04 | 0.02 | 0.09 |
| 08-APR-88 | 11.9 | 2.3 | 95.0 | 34.2 | 100 | 45.8 | 67 | 5.18 | -0.40 | 150 | 125 | 0.10 | 0.04 | 0.02 | 0.09 |
| 12-APR-88 | 7.2 | 4.0 | 62.9 | 18.6 | 10.6 | 33 | 10 | 5.19 | -0.22 | 5.7 | 150 | 125 | 0.16 | 0.04 | 0.13 |
| 14-APR-88 | 2.9 | 1.2 | 39.2 | 5.3 | 10 | 5.3 | 10 | 5.19 | -0.22 | 5.7 | 150 | 125 | 0.16 | 0.04 | 0.13 |
| 19-APR-88 | 6.7 | 0.7 | 32.3 | 5.3 | 10 | 5.3 | 10 | 5.19 | -0.22 | 5.7 | 150 | 125 | 0.16 | 0.04 | 0.13 |
| 21-APR-88 | 6.5 | 0.8 | 32.3 | 5.3 | 10 | 5.3 | 10 | 5.19 | -0.22 | 5.7 | 150 | 125 | 0.16 | 0.04 | 0.13 |
| 22-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09-JAN-89 | 30.7 | 3.2 | 42.3 | 4.6 | 100 | 4.63 | -1.20 | 11.7 | 0.95 | 350 | 160 | 0.28 | 0.09 | 0.05 | 0.17 |
| 23-JAN-89 | 47.3 | 4.6 | 101.1 | 11.3 | 100 | 4.63 | -1.20 | 17.1 | 1.35 | 355 | 130 | 0.34 | 0.11 | 0.07 | 0.22 |
| 06-FEB-89 | 56.3 | 1.2 | 121.0 | 8.7 | 100 | 4.68 | -0.95 | 17.4 | 1.35 | 540 | 350 | 0.52 | 0.45 | 0.14 | 0.25 |
| 20-FEB-89 | 72.3 | 9.0 | 148.5 | 17.8 | 100 | 4.52 | -1.60 | 18.7 | 1.35 | 539 | 230 | 0.38 | 0.09 | 0.07 | 0.22 |
| 06-MAR-89 | 74.7 | 6.7 | 172.9 | 12.8 | 100 | 4.27 | -2.60 | 26.6 | 1.95 | 704 | 275 | 0.36 | 0.10 | 0.06 | 0.33 |
| 16-MAR-89 | 65.0 | 8.2 | 175.2 | 24.3 | 100 | 4.54 | -1.30 | 14.4 | 1.05 | 465 | 200 | 0.26 | 0.11 | 0.05 | 0.20 |
| 21-MAR-89 | 85.3 | 3.2 | 211.1 | 11.3 | 100 | 4.54 | -1.30 | 13.0 | 0.75 | 430 | 215 | 0.22 | 0.10 | 0.05 | 0.23 |
| 28-MAR-89 | 53.0 | 7.2 | 166.8 | 39.3 | 100 | 4.69 | -1.10 | 17.0 | 1.35 | 350 | 260 | 0.34 | 0.12 | 0.07 | 0.20 |
| 30-MAR-89 | 35.3 | 3.2 | 111.0 | 25.5 | 100 | 4.00 | 4.89 | -0.76 | 9.1 | 272 | 200 | 0.12 | 0.07 | 0.00 | 0.15 |
| 03-APR-89 | 39.3 | 4.2 | 137.8 | 14.0 | 100 | 4.00 | 4.89 | -0.76 | 9.1 | 272 | 200 | 0.12 | 0.07 | 0.00 | 0.15 |
| 06-APR-89 | 44.3 | 1.5 | 127.9 | 35.6 | 100 | 4.00 | 5.16 | -0.22 | 7.8 | 173 | 170 | 0.12 | 0.14 | 0.02 | 0.12 |
| 10-APR-89 | 24.8 | 2.3 | 58.3 | 4.0 | 100 | 5.16 | -0.22 | 7.8 | 0.25 | 173 | 170 | 0.12 | 0.14 | 0.02 | 0.12 |
| 13-APR-89 | 54.0 | 4.8 | 152.3 | 23.9 | 100 | 5.16 | -0.22 | 7.8 | 0.25 | 173 | 170 | 0.12 | 0.14 | 0.02 | 0.12 |
| 17-APR-89 | 42.0 | 2.6 | 137.8 | 10.3 | 100 | 5.01 | -0.30 | 8.4 | 0.45 | 280 | 180 | 0.14 | 0.06 | 0.03 | 0.13 |
| 21-APR-89 | 37.0 | 2.6 | 121.7 | 8.1 | 100 | 5.01 | -0.30 | 8.4 | 0.45 | 280 | 180 | 0.14 | 0.06 | 0.03 | 0.13 |
| 24-APR-89 | 33.7 | 3.5 | 101.1 | 9.3 | 100 | 5.07 | -0.52 | 8.1 | 0.60 | 305 | 195 | 0.28 | 0.06 | 0.04 | 0.18 |
| 27-APR-89 | 17.7 | 4.5 | 56.0 | 4.0 | 50 | 5.3 | 100 | 4.40 | -2.40 | 22.5 | 120 | 0.34 | 0.06 | 0.02 | 0.23 |
| 01-MAY-89 | 15.7 | 1.2 | 48.4 | 1.3 | 5 | 0.0 | 0 | 0 | 0 | 605 | 188 | 0.34 | 0.16 | 0.34 | 0.02 |
| 02-MAY-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 670 | 247 | 0.39 | 0.07 | 0.21 | 0.02 |
| 5-DEC-89 | 31.0 | 1.3 | 54.5 | 23.2 | 100 | 4.58 | -1.10 | 14.4 | 0.75 | 599 | 113 | 0.31 | 0.08 | 0.09 | 0.19 |
| 2-DEC-89 | 31.0 | 1.7 | 52.5 | 11.5 | 100 | 4.47 | -1.30 | 17.2 | 0.35 | 498 | 190 | 0.34 | 0.11 | 0.12 | 0.20 |
| 9-DEC-89 | 41.3 | 2.5 | 48.4 | 4.8 | 100 | 4.40 | -1.60 | 18.4 | 0.85 | 640 | 163 | 0.30 | 0.09 | 0.12 | 0.22 |
| 28-DEC-89 | 48.7 | 1.5 | 62.9 | 17.3 | 100 | 3.97 | -4.80 | 43.4 | 0.80 | 1200 | 155 | 0.26 | 0.04 | 0.07 | 0.22 |
| 02-JAN-90 | 42.0 | 4.0 | 89.6 | 2.6 | 100 | 4.34 | -2.00 | 21.9 | 1.00 | 637 | 138 | 0.30 | 0.03 | 0.11 | 0.26 |
| 09-JAN-90 | 50.7 | 0.6 | 87.3 | 5.3 | 100 | 4.40 | -2.40 | 22.5 | 1.20 | 605 | 188 | 0.34 | 0.06 | 0.18 | 0.34 |
| 16-JAN-90 | 60.7 | 1.2 | 118.8 | 14.7 | 100 | 4.39 | -2.50 | 24.7 | 1.60 | 670 | 247 | 0.39 | 0.07 | 0.21 | 0.34 |
| 23-JAN-90 | 57.0 | 1.0 | 85.8 | 0.8 | 100 | 4.43 | -1.30 | 21.6 | 1.55 | 650 | 257 | 0.33 | 0.07 | 0.24 | 0.19 |
| 30-JAN-90 | 55.8 | 3.3 | 145.9 | 9.3 | 100 | 4.52 | -1.60 | 18.2 | 1.15 | 200 | 200 | 0.28 | 0.08 | 0.21 | 0.23 |
| 06-FEB-90 | 55.7 | 4.0 | 146.9 | 9.3 | 100 | 4.53 | -1.60 | 17.6 | 1.00 | 316 | 216 | 0.22 | 0.06 | 0.20 | 0.20 |
| 13-FEB-90 | 58.0 | 2.0 | 147.7 | 8.3 | 100 | 4.34 | -1.70 | 18.3 | 0.90 | 579 | 199 | 0.25 | 0.16 | 0.16 | 0.29 |
| 20-FEB-90 | 70.0 | 1.7 | 172.9 | 8.3 | 100 | 4.52 | -1.70 | 18.6 | 1.05 | 629 | 216 | 0.39 | 0.06 | 0.13 | 0.24 |
| 27-FEB-90 | 1.7 | 1.7 | 171.2 | 8.3 | 100 | 4.61 | -1.30 | 18.7 | 0.90 | 550 | 213 | 0.27 | 0.05 | 0.22 | 0.26 |
| 06-MAR-90 | 67.3 | 1.5 | 171.6 | 1.3 | 100 | 4.46 | -1.90 | 19.7 | 1.05 | 627 | 247 | 0.26 | 0.04 | 0.59 | 0.19 |
| 12-MAR-90 | 59.0 | 1.0 | 167.6 | 1.3 | 100 | 4.46 | -1.90 | 19.7 | 1.05 | 627 | 247 | 0.26 | 0.04 | 0.59 | 0.19 |

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. (mm) | COVER | PH | ALK (mg/L) | COND25 (µS/cm) | SO4 (mg/L) | CHEMICAL PARAMETERS | | | | | | | | | | | |
|-------------|-----------------|-----------------------------|-----------|-------|------|------------|----------------|------------|---------------------|----------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|-----------|-----|
| | | | | | | | | | Ammonia (µg/L) | Nitrate (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) | |
| 15-MAR-90 | 40.7 | 1.5 | 155.7 | 33.9 | 100 | 4.75 | -0.97 | 11.7 | 0.55 | 453 | 222 | 0.16 | 0.02 | 0.11 | 0.14 | 0.27 | 0.60 | 0.04 | 0.01 | 28 |
| 20-MAR-90 | 28.7 | 3.3 | 87.3 | 5.8 | 100 | 4.71 | -1.00 | 11.3 | 0.50 | 454 | 178 | 0.14 | 0.03 | 0.08 | 0.11 | 0.20 | 0.60 | 0.03 | 0.01 | 25 |
| 27-MAR-90 | 22.8 | 0.8 | 60.6 | 4.6 | 100 | 4.83 | -0.78 | 8.7 | 0.30 | 259 | 183 | 0.07 | 0.02 | 0.05 | 0.16 | 0.29 | 0.40 | 0.04 | 0.00 | 33 |
| 03-APR-90 | 21.3 | 2.0 | 70.5 | 3.8 | 90 | 3.5 | 75 | 100 | 0.50 | 259 | 183 | 0.07 | 0.02 | 0.05 | 0.16 | 0.29 | 0.40 | 0.04 | 0.00 | 33 |
| 12-APR-90 | 21.0 | 1.7 | 69.0 | 3.7 | 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 18-APR-90 | 20.2 | 1.9 | 57.5 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 19-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 12-DEC-90 | 14.5 | 1.0 | 27.0 | 2.6 | 100 | 4.57 | -1.30 | 21.3 | 1.15 | 472 | 120 | 0.32 | 0.06 | 0.15 | 0.90 | 1.43 | 0.90 | 0.04 | 0.02 | 43 |
| 19-DEC-90 | 17.0 | 0.5 | 32.3 | 3.5 | 100 | 4.49 | -1.40 | 14.5 | 1.00 | 460 | 127 | 0.38 | 0.07 | 0.17 | 0.12 | 0.23 | 0.70 | 0.04 | 0.03 | 29 |
| 04-JAN-91 | 41.0 | 3.0 | 70.3 | 3.5 | 100 | 4.62 | -1.30 | 14.5 | 1.00 | 593 | 110 | 0.31 | 0.06 | 0.18 | 0.38 | 0.63 | 1.10 | 0.06 | 0.02 | 56 |
| 09-JAN-91 | 39.7 | 2.5 | 87.3 | 8.1 | 100 | 4.60 | -1.00 | 19.3 | 0.70 | 364 | 92 | 0.20 | 0.04 | 0.11 | 1.47 | 2.17 | 0.60 | 0.11 | 0.01 | 46 |
| 17-JAN-91 | 45.3 | 0.6 | 105.7 | 3.9 | 100 | 4.48 | -1.50 | 14.9 | 0.70 | 426 | 119 | 0.14 | 0.03 | 0.07 | 0.05 | 0.10 | 0.50 | 0.15 | 0.01 | 100 |
| 27-JAN-91 | 47.7 | 1.6 | 104.2 | 6.1 | 100 | 4.45 | -1.80 | 17.1 | 0.95 | 462 | 114 | 0.19 | 0.03 | 0.08 | 0.09 | 0.17 | 0.60 | 0.05 | 0.01 | 39 |
| 30-JAN-91 | 64.7 | 3.3 | 136.3 | 2.3 | 100 | 4.31 | -2.00 | 22.5 | 1.00 | 638 | 155 | 0.19 | 0.03 | 0.44 | 0.14 | 0.70 | 0.03 | 0.01 | 0.01 | 24 |
| 05-FEB-91 | 55.2 | 0.8 | 189.4 | 4.0 | 100 | 4.49 | -1.70 | 17.0 | 0.83 | 510 | 136 | 0.17 | 0.03 | 0.07 | 0.16 | 0.28 | 0.50 | 0.02 | 0.01 | 18 |
| 08-FEB-91 | 46.8 | 2.9 | 132.4 | 10.3 | 100 | 4.43 | -1.60 | 15.8 | 0.85 | 473 | 124 | 0.16 | 0.04 | 0.09 | 0.16 | 0.80 | 0.02 | 0.01 | 0.01 | 17 |
| 13-FEB-91 | 52.7 | 0.6 | 143.9 | 3.5 | 100 | 4.43 | -1.60 | 14.5 | 0.51 | 451 | 120 | 0.16 | 0.04 | 0.09 | 0.16 | 0.80 | 0.02 | 0.01 | 0.01 | 22 |
| 20-FEB-91 | 61.0 | 1.0 | 164.5 | 3.5 | 100 | 4.51 | -1.60 | 14.5 | 0.70 | 428 | 119 | 0.14 | 0.03 | 0.05 | 0.07 | 0.14 | 0.40 | 0.02 | 0.01 | 24 |
| 27-FEB-91 | 60.0 | 0.0 | 164.5 | 4.8 | 100 | 4.46 | -1.50 | 14.7 | 0.70 | 480 | 136 | 0.18 | 0.04 | 0.06 | 0.08 | 0.17 | 0.50 | 0.03 | 0.01 | 24 |
| 04-MAR-91 | 53.2 | 1.4 | 170.6 | 8.3 | 100 | 4.48 | -1.60 | 15.7 | 0.70 | 470 | 118 | 0.17 | 0.04 | 0.08 | 0.09 | 0.20 | 1.00 | 0.00 | 0.01 | 100 |
| 08-MAR-91 | 57.0 | 1.0 | 184.4 | 4.0 | 100 | 4.59 | -1.30 | 13.3 | 0.75 | 440 | 120 | 0.25 | 0.03 | 0.07 | 0.14 | 0.24 | 0.90 | 0.00 | 0.01 | 25 |
| 13-MAR-91 | 54.8 | 1.1 | 182.1 | 3.2 | 100 | 4.59 | -1.20 | 13.2 | 0.60 | 470 | 135 | 0.12 | 0.03 | 0.07 | 0.18 | 0.32 | 0.60 | 0.00 | 0.01 | 24 |
| 19-MAR-91 | 47.7 | 2.4 | 185.3 | 13.0 | 100 | 4.77 | -0.82 | 9.6 | 0.35 | 301 | 115 | 0.07 | 0.01 | 0.13 | 0.24 | 0.30 | 0.40 | 0.00 | 0.01 | 15 |
| 23-MAR-91 | 49.7 | 3.2 | 160.7 | 13.4 | 100 | 4.51 | -0.93 | 9.5 | 0.33 | 304 | 123 | 0.13 | 0.03 | 0.08 | 0.17 | 0.26 | 0.40 | 0.02 | 0.01 | 22 |
| 25-MAR-91 | 43.0 | 4.3 | 151.3 | 20.8 | 100 | 4.71 | -0.93 | 5.8 | 0.30 | 211 | 113 | 0.13 | 0.02 | 0.04 | 0.13 | 0.24 | 0.30 | 0.00 | 0.01 | 24 |
| 28-MAR-91 | 38.8 | 4.5 | 128.6 | 19.8 | 100 | 5.13 | -0.45 | 5.8 | 0.30 | 211 | 113 | 0.13 | 0.03 | 0.08 | 0.17 | 0.26 | 0.40 | 0.02 | 0.01 | 24 |
| 02-APR-91 | 40.3 | 2.6 | 136.3 | 9.2 | 100 | 4.80 | -0.79 | 9.5 | 0.50 | 270 | 116 | 0.13 | 0.02 | 0.04 | 0.13 | 0.24 | 0.30 | 0.00 | 0.01 | 24 |
| 05-APR-91 | 32.7 | 4.0 | 126.3 | 10.8 | 100 | 4.59 | -1.30 | 13.3 | 0.75 | 440 | 120 | 0.25 | 0.03 | 0.07 | 0.14 | 0.24 | 0.90 | 0.00 | 0.01 | 25 |
| 08-APR-91 | 16.3 | 1.3 | 57.5 | 7.0 | 90 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 11-APR-91 | 8.0 | 1.8 | 21.6 | 6.1 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 15-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 19-DEC-91 | 19.3 | 0.6 | 18.6 | 3.5 | 100 | 4.67 | -1.00 | 8.3 | 0.31 | 337 | 42 | 0.04 | 0.01 | 0.06 | 0.07 | 0.13 | 0.80 | 0.04 | 0.00 | 2 |
| 09-JAN-92 | 16.8 | 1.3 | 31.6 | 1.3 | 100 | 4.78 | -0.78 | 8.5 | 0.50 | 341 | 86 | 0.10 | 0.02 | 0.12 | 0.11 | 0.22 | 0.70 | 0.03 | 0.01 | 6 |
| 17-JAN-92 | 34.3 | 0.6 | 64.4 | 1.3 | 100 | 4.99 | -0.39 | 12.6 | 0.95 | 319 | 92 | 0.15 | 0.05 | 0.29 | 0.41 | 0.37 | 2.60 | 0.00 | 0.01 | 19 |
| 23-JAN-92 | 43.5 | 2.8 | 91.2 | 8.7 | 100 | 4.58 | -1.40 | 12.6 | 0.95 | 363 | 100 | 0.18 | 0.03 | 0.14 | 0.14 | 0.39 | 0.22 | 0.70 | 0.04 | 20 |
| 30-JAN-92 | 44.0 | 1.0 | 95.0 | 2.0 | 100 | 4.48 | -1.90 | 16.8 | 1.15 | 470 | 140 | 0.17 | 0.03 | 0.14 | 0.08 | 0.20 | 0.50 | 0.08 | 0.01 | 25 |
| 06-FEB-92 | 47.7 | 0.6 | 82.7 | 13.9 | 100 | 4.48 | -1.80 | 18.6 | 1.35 | 500 | 200 | 0.24 | 0.04 | 0.24 | 0.09 | 0.24 | 1.30 | 0.06 | 0.01 | 12 |
| 13-FEB-92 | 49.3 | 0.6 | 108.7 | 4.0 | 100 | 4.46 | -2.20 | 21.2 | 1.55 | 637 | 249 | 0.35 | 0.06 | 0.21 | 0.14 | 0.30 | 1.10 | 0.06 | 0.01 | 11 |
| 20-FEB-92 | 60.0 | 1.0 | 140.1 | 1.3 | 100 | 4.44 | -1.90 | 18.7 | 1.20 | 539 | 200 | 0.20 | 0.05 | 0.11 | 0.09 | 0.22 | 1.20 | 0.03 | 0.01 | 0 |
| 27-FEB-92 | 73.8 | 4.0 | 170.6 | 2.3 | 100 | 4.43 | -1.90 | 18.5 | 1.20 | 546 | 206 | 0.16 | 0.03 | 0.08 | 0.10 | 0.23 | 1.00 | 0.08 | 0.01 | 7 |
| 04-MAR-92 | 81.7 | 2.5 | 181.3 | 1.3 | 100 | 4.46 | -1.70 | 17.9 | 1.35 | 520 | 195 | 0.23 | 0.04 | 0.15 | 0.09 | 0.29 | 1.00 | 0.07 | 0.01 | 13 |
| 13-MAR-92 | 76.7 | 0.6 | 92.8 | 24.1 | 100 | 4.56 | -1.20 | 12.4 | 0.95 | 304 | 127 | 0.08 | 0.01 | 0.03 | 0.04 | 0.10 | 0.40 | 0.07 | 0.00 | 4 |
| 19-MAR-92 | 74.8 | 0.6 | 207.3 | 11.9 | 100 | 4.39 | -2.10 | 16.7 | 1.40 | 538 | 220 | 0.19 | 0.03 | 0.08 | 0.10 | 0.20 | 0.60 | 0.06 | 0.01 | 20 |
| 25-MAR-92 | 67.2 | 3.6 | 189.7 | 21.3 | 100 | 4.45 | -1.80 | 16.2 | 1.20 | 491 | 206 | 0.15 | 0.02 | 0.08 | 0.12 | 0.25 | 0.60 | 0.06 | 0.01 | 10 |
| 01-APR-92 | 58.5 | 2.5 | 191.3 | 11.9 | 100 | 4.53 | -1.40 | 12.3 | 0.95 | 325 | 138 | 0.11 | 0.02 | 0.08 | 0.17 | 0.20 | 0.60 | 0.06 | 0.01 | 10 |
| 08-APR-92 | 47.5 | 3.9 | 179.8 | 26.0 | 100 | 4.35 | -2.10 | 19.2 | 1.40 | 533 | 214 | 0.17 | 0.03 | 0.14 | 0.11 | 0.25 | 0.90 | 0.04 | 0.01 | 10 |
| 15-APR-92 | 51.0 | 1.8 | 175.2 | 8.3 | 100 | 4.67 | -1.00 | 9.9 | 0.70 | 327 | 132 | 0.12 | 0.02 | 0.07 | 0.05 | 0.16 | 0.40 | 0.07 | 0.01 | 38 |
| 21-APR-92 | 30.8 | 0.8 | 11.0 | 10.0 | 61.4 | 6.6 | 85 | 0.25 | 5.1 | 177 | 120 | 0.07 | 0.01 | 0.07 | 0.05 | 0.18 | 0.60 | 0.01 | 0.00 | 31 |
| 24-APR-92 | 19.0 | 3.6 | 42.3 | 2.3 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 28-APR-92 | 12.7 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

Table 9 (cont'd)

HARP LAKE SNOW CORE DATA SUMMARY
HPSZ04

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | WATER EQUIVALENCE S.D. (mm) | % COVER | PH | ALK (mg/L) | CHEMICAL PARAMETERS | | | | | | | |
|-------------|-----------------|-----------------------------|-----------------------------|---------|-----|------------|-------------------------|-----------|-----------|-----------------|----------------|------------|-----------|------------|
| | | | | | | | Ca ²⁺ (mg/L) | Na (mg/L) | Mg (mg/L) | Ammonium (mg/L) | Nitrate (mg/L) | DOC (mg/L) | Fe (mg/L) | Min (mg/L) |
| 21-JAN-88 | 39.3 | 2.3 | 94.2 | 7.4 | 100 | 4.47 | -1.90 | 19.2 | 1.50 | 505 | 190 | 0.42 | 0.08 | 0.24 |
| 09-FEB-88 | 41.0 | 3.6 | 91.2 | 15.3 | 100 | 4.45 | -1.40 | 13.8 | 0.85 | 425 | 170 | 0.18 | 0.06 | 0.20 |
| 23-FEB-88 | 79.8 | 2.8 | 169.9 | 17.8 | 100 | 4.82 | -2.00 | 20.0 | 0.95 | 530 | 240 | 0.26 | 0.13 | 0.30 |
| 08-MAR-88 | 30.0 | 2.2 | 188.2 | 9.3 | 100 | 4.41 | -0.47 | 23.0 | 1.35 | 760 | 320 | 0.44 | 0.08 | 0.06 |
| 15-MAR-88 | 32.2 | 2.9 | 22.1 | 205.0 | 100 | 4.44 | -2.30 | 20.5 | 1.25 | 680 | 305 | 0.28 | 0.06 | 0.35 |
| 29-MAR-88 | 22.3 | 0.6 | 166.1 | 12.1 | 100 | 4.82 | -1.00 | 9.3 | 0.35 | 375 | 210 | 0.12 | 0.05 | 0.03 |
| 31-MAR-88 | 16.6 | 1.9 | 135.1 | 14.6 | 100 | 5.03 | -0.57 | 6.3 | 0.30 | 145 | 140 | 0.06 | 0.06 | 0.01 |
| 06-APR-88 | 8.8 | 1.6 | 71.3 | 19.5 | 100 | 4.70 | -1.50 | 19.6 | 1.25 | 616 | 200 | 0.44 | 0.23 | 0.11 |
| 08-APR-88 | 5.4 | 1.4 | 33.8 | 14.0 | 67 | 5.21 | -0.32 | 4.5 | 0.10 | 115 | 120 | 0.08 | 0.12 | 0.03 |
| 12-APR-88 | 2.2 | 0.5 | 12.5 | 6.1 | 10 | 5.21 | -0.32 | 4.5 | 0.10 | 115 | 120 | 0.08 | 0.12 | 0.03 |
| 14-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 495 | 215 | 0.22 | 0.19 | 0.05 |
| 09-JAN-89 | 30.0 | 4.5 | 36.5 | 5.7 | 100 | 4.79 | -0.82 | 13.8 | 0.85 | 355 | 180 | 0.26 | 0.35 | 0.32 |
| 23-JAN-89 | 42.8 | 2.9 | 80.5 | 3.5 | 100 | 4.30 | -1.30 | 18.6 | 1.35 | 365 | 300 | 0.34 | 0.09 | 0.26 |
| 06-FEB-89 | 35.7 | 6.1 | 63.2 | 9.2 | 100 | 4.31 | -1.40 | 18.3 | 1.40 | 375 | 335 | 0.32 | 0.20 | 0.07 |
| 20-FEB-89 | 59.3 | 7.8 | 121.7 | 19.5 | 100 | 4.31 | -1.30 | 19.6 | 1.25 | 616 | 200 | 0.44 | 0.23 | 0.11 |
| 06-MAR-89 | 63.3 | 5.1 | 140.8 | 9.2 | 100 | 4.60 | -1.10 | 18.2 | 1.40 | 627 | 145 | 0.44 | 0.52 | 0.16 |
| 16-MAR-89 | 50.7 | 5.0 | 125.6 | 25.3 | 100 | 4.58 | -1.30 | 13.9 | 0.90 | 495 | 215 | 0.22 | 0.22 | 0.22 |
| 21-MAR-89 | 70.7 | 5.9 | 166.8 | 25.4 | 100 | 4.58 | -1.30 | 13.9 | 0.90 | 495 | 215 | 0.22 | 0.19 | 0.05 |
| 28-MAR-89 | 38.3 | 4.9 | 140.8 | 21.0 | 100 | 4.84 | -0.81 | 10.8 | 0.55 | 490 | 235 | 0.14 | 0.19 | 0.04 |
| 30-MAR-89 | 34.3 | 1.2 | 111.0 | 19.9 | 100 | 4.70 | -0.66 | 8.4 | 0.45 | 272 | 220 | 0.12 | 0.07 | 0.00 |
| 03-APR-89 | 34.7 | 2.3 | 121.0 | 3.7 | 100 | 5.00 | -0.66 | 8.4 | 0.45 | 145 | 145 | 0.18 | 0.31 | 0.03 |
| 06-APR-89 | 29.5 | 0.5 | 86.6 | 2.7 | 100 | 5.00 | -0.66 | 8.4 | 0.30 | 149 | 145 | 0.18 | 0.31 | 0.03 |
| 10-APR-89 | 27.5 | 2.3 | 75.9 | 4.8 | 100 | 5.48 | 0.00 | 6.5 | 0.30 | 280 | 135 | 0.95 | 0.25 | 0.27 |
| 13-APR-89 | 42.8 | 2.0 | 93.5 | 5.8 | 100 | 5.00 | -0.66 | 8.4 | 0.30 | 149 | 145 | 0.18 | 0.31 | 0.03 |
| 17-APR-89 | 23.0 | 2.0 | 67.5 | 10.0 | 100 | 5.37 | 0.00 | 6.0 | 0.20 | 135 | 95 | 0.10 | 0.25 | 0.03 |
| 21-APR-89 | 14.5 | 0.5 | 43.0 | 1.3 | 100 | 5.30 | -0.28 | 5.1 | 0.30 | 130 | 125 | 0.12 | 0.05 | 0.12 |
| 24-APR-89 | 18.0 | 1.0 | 36.1 | 7.0 | 100 | 5.30 | -0.28 | 5.1 | 0.30 | 130 | 125 | 0.12 | 0.05 | 0.14 |
| 03-DEC-89 | 24.5 | 2.6 | 29.3 | 7.0 | 100 | 4.58 | -1.00 | 14.4 | 0.80 | 442 | 113 | 0.31 | 0.08 | 0.25 |
| 19-DEC-89 | 32.5 | 0.9 | 34.6 | 3.5 | 100 | 4.50 | -1.50 | 49.4 | 0.90 | 1115 | 175 | 0.30 | 0.08 | 0.14 |
| 28-DEC-89 | 44.3 | 3.1 | 39.2 | 3.5 | 100 | 4.44 | -1.30 | 18.4 | 0.95 | 630 | 163 | 0.28 | 0.06 | 0.13 |
| 02-JAN-90 | 40.2 | 0.3 | 63.2 | 2.3 | 100 | 4.41 | -1.70 | 22.1 | 0.90 | 682 | 158 | 0.38 | 0.07 | 0.12 |
| 09-JAN-90 | 41.7 | 4.5 | 91.2 | 11.3 | 100 | 4.35 | -1.90 | 22.1 | 0.90 | 647 | 153 | 0.27 | 0.06 | 0.14 |
| 16-JAN-90 | 59.0 | 4.0 | 106.4 | 4.8 | 100 | 4.26 | -3.20 | 28.1 | 1.20 | 780 | 186 | 0.28 | 0.07 | 0.02 |
| 23-JAN-90 | 53.3 | 1.2 | 83.5 | 5.0 | 100 | 4.44 | -1.30 | 23.4 | 1.15 | 630 | 227 | 0.21 | 0.06 | 0.14 |
| 30-JAN-90 | 51.5 | 0.9 | 130.1 | 2.6 | 100 | 4.51 | -1.70 | 18.7 | 1.05 | 530 | 180 | 0.24 | 0.08 | 0.35 |
| 06-FEB-90 | 52.7 | 1.5 | 137.8 | 22.6 | 100 | 4.50 | -1.70 | 19.1 | 1.00 | 602 | 244 | 0.24 | 0.03 | 0.14 |
| 13-FEB-90 | 48.3 | 0.6 | 136.3 | 6.1 | 100 | 4.66 | -1.30 | 15.0 | 1.00 | 450 | 196 | 0.19 | 0.12 | 0.04 |
| 20-FEB-90 | 50.0 | 0.0 | 146.9 | 8.1 | 100 | 4.33 | -2.40 | 26.2 | 1.40 | 644 | 232 | 0.41 | 0.15 | 0.18 |
| 27-FEB-90 | 60.3 | 0.8 | 170.6 | 2.3 | 100 | 4.48 | -1.80 | 18.8 | 0.85 | 639 | 231 | 0.21 | 0.10 | 0.19 |
| 06-MAR-90 | 56.3 | 0.8 | 161.5 | 2.3 | 100 | 4.56 | -1.30 | 18.4 | 0.95 | 621 | 245 | 0.27 | 0.05 | 0.20 |
| 12-MAR-90 | 53.7 | 4.0 | 171.5 | 9.2 | 100 | 4.86 | -0.71 | 9.0 | 0.35 | 360 | 195 | 0.07 | 0.08 | 0.07 |
| 15-MAR-90 | 29.3 | 3.1 | 105.7 | 19.8 | 100 | 4.95 | -0.62 | 7.6 | 0.30 | 291 | 197 | 0.05 | 0.09 | 0.13 |
| 20-MAR-90 | 18.7 | 0.6 | 64.4 | 3.5 | 90 | 4.95 | -0.62 | 7.6 | 0.30 | 27 | 27 | 0.05 | 0.00 | 0.00 |
| 27-MAR-90 | 13.5 | 0.9 | 36.9 | 3.5 | 75 | 4.8 | -0.62 | 7.6 | 0.30 | 291 | 197 | 0.05 | 0.09 | 0.06 |
| 03-APR-90 | 12.3 | 1.5 | 46.1 | 10.8 | 50 | 4.8 | -0.62 | 7.6 | 0.30 | 27 | 27 | 0.05 | 0.00 | 0.00 |
| 12-APR-90 | 6.7 | 2.5 | 18.6 | 4.8 | 23 | 4.8 | -0.62 | 7.6 | 0.30 | 27 | 27 | 0.05 | 0.00 | 0.00 |

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. | COVER % | PH | ALK (mg/L) | CHEMICAL PARAMETERS | | | | | | AI (mg/L) | | | | | | | | |
|-------------|-----------------|-----------------------------|-------|---------|------|------------|---------------------|------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------|------|----|
| | | | | | | | COND25 (mg/L) | SO4 (mg/L) | NITRATE (mg/L) | AMMONIA (mg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | | | |
| 18-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 100 | 4.57 | -1.20 | 19.0 | 0.85 | 459 | 128 | 0.23 | 0.04 | 0.68 | -0.68 | 1.10 | 0.60 | 0.04 | 0.04 | 35 | |
| 12-DEC-90 | 0.3 | 1.0 | 30.0 | 4.8 | 100 | 4.42 | -1.70 | 20.0 | 1.20 | 567 | 138 | 0.31 | 0.05 | 0.08 | 0.12 | 0.25 | 0.60 | 0.04 | 0.01 | 32 | |
| 19-DEC-90 | 1.4 | 1.0 | 36.0 | 1.0 | 13 | 1.3 | 4.32 | -2.30 | 12.8 | 0.55 | 352 | 89 | 0.15 | 0.03 | 0.14 | 0.13 | 0.25 | 0.70 | 0.03 | 0.01 | 51 |
| 04-JAN-91 | 39.3 | 2.5 | 88.1 | 6.1 | 100 | 4.66 | -0.91 | 19.8 | 0.65 | 351 | 79 | 0.18 | 0.04 | 0.17 | 1.66 | 2.12 | 0.50 | 0.68 | 0.01 | 38 | |
| 09-JAN-91 | 44.3 | 0.6 | 82.8 | 8.1 | 100 | 4.46 | -1.50 | 15.6 | 0.80 | 409 | 111 | 0.11 | 0.03 | 0.13 | 0.10 | 0.22 | 0.50 | 0.04 | 0.02 | 32 | |
| 17-JAN-91 | 1.6 | 9.1 | 10.3 | 10.0 | 4.46 | -1.70 | 17.3 | 0.85 | 509 | 117 | 0.23 | 0.04 | 0.06 | 0.12 | 0.23 | 0.50 | 0.11 | 0.01 | 74 | | |
| 23-JAN-91 | 45.3 | 3.0 | 123.3 | 3.5 | 100 | 4.46 | -1.50 | 17.6 | 1.20 | 470 | 113 | 0.21 | 0.07 | 0.22 | 0.26 | 0.46 | 0.80 | 0.05 | 0.01 | 26 | |
| 30-JAN-91 | 61.3 | 2.0 | 111.8 | 4.8 | 100 | 4.57 | -1.30 | 16.5 | 0.90 | 496 | 133 | 0.17 | 0.04 | 0.08 | 0.10 | 0.20 | 0.60 | 0.03 | 0.01 | 21 | |
| 03-FEB-91 | 45.2 | 3.6 | 107.2 | 9.5 | 100 | 4.43 | -1.70 | 15.9 | 0.90 | 471 | 130 | 0.16 | 0.04 | 0.06 | 0.26 | 0.46 | 0.60 | 0.03 | 0.01 | 20 | |
| 08-FEB-91 | 39.7 | 0.8 | 122.5 | 4.0 | 100 | 4.43 | -1.30 | 13.7 | 0.70 | 376 | 97 | 0.12 | 0.03 | 0.05 | 0.11 | 0.20 | 0.70 | 0.03 | 0.01 | 30 | |
| 13-FEB-91 | 45.7 | 0.6 | 146.2 | 3.5 | 100 | 4.54 | -1.20 | 15.3 | 0.75 | 444 | 120 | 0.15 | 0.03 | 0.04 | 0.12 | 0.22 | 0.50 | 0.04 | 0.01 | 34 | |
| 20-FEB-91 | 49.0 | 2.7 | 147.7 | 2.3 | 100 | 4.44 | -1.70 | 15.0 | 0.88 | 383 | 117 | 0.15 | 0.03 | 0.07 | 0.10 | 0.20 | 0.45 | 0.07 | 0.01 | 33 | |
| 21-FEB-91 | 30.7 | 0.3 | 141.6 | 7.4 | 100 | 4.49 | -1.50 | 18.8 | 0.25 | 270 | 100 | 0.10 | 0.02 | 0.05 | 0.07 | 0.17 | 1.39 | 0.07 | 0.01 | 26 | |
| 04-MAR-91 | 39.5 | 2.6 | 126.3 | 5.8 | 100 | 4.59 | -1.30 | 11.9 | 0.65 | 270 | 100 | 0.11 | 0.03 | 0.06 | 0.26 | 0.44 | 1.20 | 0.07 | 0.01 | 26 | |
| 08-MAR-91 | 38.0 | 1.0 | 117.7 | 11.8 | 100 | 4.58 | -1.70 | 13.2 | 0.70 | 275 | 100 | 0.11 | 0.03 | 0.06 | 0.26 | 0.44 | 1.20 | 0.07 | 0.01 | 26 | |
| 13-MAR-91 | 37.5 | 0.6 | 118.7 | 6.6 | 100 | 4.91 | -0.58 | 7.6 | 0.35 | 210 | 112 | 0.05 | 0.02 | 0.03 | 0.04 | 0.13 | 0.60 | 0.02 | 0.01 | 21 | |
| 19-MAR-91 | 29.3 | 0.6 | 112.6 | 8.7 | 100 | 4.86 | -0.86 | 6.9 | 0.00 | 190 | 111 | 0.07 | 0.02 | 0.07 | 0.13 | 0.26 | 0.40 | 0.02 | 0.01 | 20 | |
| 21-MAR-91 | 34.0 | 1.7 | 114.1 | 7.4 | 100 | 4.89 | -0.75 | 6.6 | 0.40 | 131 | 89 | 0.07 | 0.02 | 0.08 | 0.09 | 0.18 | 0.40 | 0.02 | 0.01 | 20 | |
| 25-MAR-91 | 29.7 | 0.6 | 128.0 | 2.6 | 100 | 4.89 | -0.75 | 6.6 | 0.40 | 146 | 72 | 0.10 | 0.02 | 0.08 | 0.09 | 0.18 | 0.40 | 0.02 | 0.01 | 20 | |
| 28-MAR-91 | 18.2 | 0.8 | 63.7 | 8.3 | 100 | 4.97 | -0.38 | 6.5 | 0.25 | 146 | 72 | 0.10 | 0.02 | 0.08 | 0.09 | 0.18 | 0.40 | 0.02 | 0.01 | 20 | |
| 02-APR-91 | 24.2 | 1.3 | 88.1 | 8.3 | 100 | 4.51 | -1.70 | 17.3 | 0.80 | 460 | 145 | 0.12 | 0.03 | 0.10 | 0.14 | 0.27 | 0.40 | 0.05 | 0.01 | 6 | |
| 05-APR-91 | 12.7 | 4.0 | 32.2 | 19.1 | 90 | 4.51 | -1.70 | 17.8 | 1.45 | 321 | 213 | 0.22 | 0.07 | 0.35 | 0.13 | 0.28 | 1.20 | 0.12 | 0.01 | 13 | |
| 08-APR-91 | 6.8 | 0.6 | 24.7 | 4.8 | 10 | 0 | 0.0 | 0.0 | 0.0 | 324 | 214 | 0.18 | 0.04 | 0.12 | 0.15 | 0.28 | 0.50 | 0.08 | 0.01 | 11 | |
| 11-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100 | 4.68 | -1.10 | 8.1 | 0.29 | 374 | 44 | 0.11 | 0.02 | 0.05 | 0.31 | 0.52 | 0.40 | 0.06 | 0.0 | 5 |
| 19-DEC-91 | 14.3 | 0.3 | 10.2 | 1.0 | 100 | 4.68 | -2.00 | 19.2 | 1.23 | 340 | 193 | 0.17 | 0.04 | 0.12 | 0.24 | 0.40 | 0.50 | 0.04 | 0.01 | 0 | |
| 09-DEC-92 | 13.8 | 3.8 | 27.0 | 7.0 | 100 | 4.81 | -0.70 | 11.0 | 0.55 | 338 | 69 | 0.14 | 0.05 | 0.15 | 0.49 | 0.82 | 1.10 | 0.08 | 0.02 | 4 | |
| 17-JAN-92 | 29.2 | 1.6 | 44.5 | 2.3 | 100 | 4.65 | -1.20 | 10.0 | 0.60 | 287 | 73 | 0.08 | 0.02 | 0.10 | 0.11 | 0.21 | 0.60 | 0.04 | 0.01 | 13 | |
| 23-JAN-92 | 32.5 | 0.5 | 65.9 | 3.5 | 100 | 4.56 | -1.50 | 12.3 | 0.75 | 381 | 96 | 0.10 | 0.02 | 0.06 | 0.13 | 0.24 | 0.70 | 0.06 | 0.01 | 11 | |
| 30-JAN-92 | 37.0 | 0.0 | 75.1 | 3.5 | 100 | 4.51 | -1.80 | 17.3 | 0.80 | 460 | 145 | 0.12 | 0.03 | 0.10 | 0.14 | 0.27 | 0.40 | 0.05 | 0.01 | 6 | |
| 06-FEB-92 | 40.2 | 1.8 | 77.4 | 1.3 | 100 | 4.51 | -1.70 | 17.8 | 1.45 | 321 | 213 | 0.22 | 0.07 | 0.35 | 0.13 | 0.28 | 1.20 | 0.12 | 0.01 | 13 | |
| 13-FEB-92 | 44.5 | 2.8 | 65.0 | 11.5 | 100 | 4.46 | -2.30 | 18.9 | 1.20 | 398 | 234 | 0.18 | 0.04 | 0.12 | 0.15 | 0.28 | 0.50 | 0.08 | 0.01 | 11 | |
| 20-FEB-92 | 47.7 | 4.9 | 164.2 | 11.3 | 100 | 4.42 | -2.10 | 20.8 | 1.35 | 575 | 198 | 0.20 | 0.06 | 0.16 | 0.15 | 0.30 | 0.50 | 0.05 | 0.01 | 4 | |
| 27-FEB-92 | 62.0 | 2.2 | 119.4 | 13.0 | 100 | 4.38 | -2.10 | 20.8 | 1.60 | 360 | 205 | 0.22 | 0.04 | 0.08 | 0.11 | 0.24 | 1.10 | 0.07 | 0.01 | 11 | |
| 04-MAR-92 | 68.0 | 0.5 | 134.6 | 20.6 | 100 | 4.35 | -2.20 | 21.9 | 1.60 | 275 | 225 | 0.08 | 0.02 | 0.04 | 0.06 | 0.15 | 1.00 | 0.07 | 0.00 | 9 | |
| 13-MAR-92 | 61.0 | 1.0 | 157.6 | 3.5 | 100 | 4.49 | -1.50 | 13.5 | 1.15 | 321 | 130 | 0.13 | 0.03 | 0.06 | 0.09 | 0.18 | 1.30 | 0.05 | 0.01 | 0 | |
| 19-MAR-92 | 59.5 | 0.5 | 169.9 | 3.5 | 100 | 4.46 | -1.80 | 13.9 | 1.30 | 333 | 130 | 0.20 | 0.05 | 0.13 | 0.08 | 0.21 | 1.60 | 0.09 | 0.02 | 18 | |
| 25-MAR-92 | 55.2 | 1.0 | 176.8 | 5.3 | 100 | 4.46 | -1.80 | 15.6 | 1.45 | 321 | 130 | 0.18 | 0.05 | 0.13 | 0.08 | 0.21 | 1.40 | 0.09 | 0.02 | 20 | |
| 01-APR-92 | 44.2 | 0.8 | 173.7 | 9.3 | 100 | 4.60 | -1.20 | 11.3 | 1.05 | 276 | 151 | 0.18 | 0.05 | 0.10 | 0.08 | 0.21 | 1.40 | 0.09 | 0.02 | 18 | |
| 08-APR-92 | 39.5 | 1.0 | 147.7 | 12.1 | 100 | 4.63 | -2.00 | 9.9 | 0.75 | 244 | 160 | 0.10 | 0.02 | 0.13 | 0.07 | 0.20 | 1.40 | 0.04 | 0.01 | 8 | |
| 15-APR-92 | 35.3 | 2.0 | 124.8 | 18.2 | 100 | 5.03 | -0.44 | 6.7 | 0.45 | 189 | 145 | 0.05 | 0.01 | 0.04 | 0.03 | 0.15 | 0.50 | 0.03 | 0.01 | 19 | |
| 21-APR-92 | 12.3 | 1.6 | 48.4 | 9.5 | 75 | 5.15 | -0.15 | 5.0 | 0.30 | 159 | 124 | 0.09 | 0.02 | 0.11 | 0.06 | 0.22 | 0.90 | 0.01 | 0.01 | 24 | |
| 24-APR-92 | 10.3 | 4.5 | 41.5 | 15.3 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 28-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

Table 10 (cont'd)

HARP LAKE SNOW CORE DATA SUMMARY
HPSZ06

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | % COVER | CHEMICAL PARAMETERS | | | | | | | | | | | | | | | |
|-------------|-----------------|------------------------|---------|---------------------|-----------|------|------------|-----------------|------------|----------------|-----------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|
| | | | | MEAN S.D. | MEAN S.D. | PH | ALK (mg/L) | COND25 (µmhoes) | SO4 (mg/L) | NITRATE (µg/L) | AMMONIUM (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) |
| 21-JAN-88 | 32.5 | 3.0 | 86.5 | 13.8 | 1.00 | 4.57 | -1.30 | 16.5 | 1.35 | 465 | 150 | 0.34 | 0.14 | 0.67 | 0.21 | | | | |
| 09-FEB-88 | 38.0 | 1.7 | 92.7 | 11.5 | 1.00 | 4.80 | -0.09 | 11.2 | 391 | 137 | 0.26 | 0.14 | 0.65 | 0.21 | | | | | |
| 23-FEB-88 | 71.3 | 4.9 | 166.1 | 6.9 | 1.00 | 4.45 | -2.10 | 7.0 | 1.25 | 605 | 220 | 0.32 | 0.16 | 0.67 | 0.22 | | | | |
| 08-MAR-88 | 24.0 | 0.9 | 171.7 | 12.6 | 1.00 | 4.47 | -2.40 | 21.5 | 1.35 | 705 | 260 | 0.46 | 0.12 | 0.67 | 0.23 | | | | |
| 15-MAR-88 | 28.0 | 1.4 | 228.0 | 49.0 | 1.00 | 4.65 | -1.40 | 16.8 | 1.30 | 620 | 235 | 0.50 | 0.23 | 0.13 | 0.26 | | | | |
| 29-MAR-88 | 17.5 | 1.0 | 141.6 | 13.0 | 1.00 | 4.97 | -0.65 | 7.9 | 0.30 | 265 | 160 | 0.12 | 0.07 | 0.63 | 0.15 | | | | |
| 01-MAR-88 | 12.5 | 1.4 | 108.0 | 14.6 | 1.00 | 5.17 | -0.28 | 4.8 | 0.20 | 125 | 155 | 0.08 | 0.07 | 0.02 | 0.13 | | | | |
| 06-APR-88 | 3.4 | 0.1 | 23.2 | 1.3 | 1.00 | 5.17 | -0.28 | 4.8 | 0.20 | 125 | 155 | 0.08 | 0.07 | 0.02 | 0.13 | | | | |
| 08-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 09-JAN-89 | 25.5 | 2.2 | 33.1 | 7.9 | 1.00 | 4.70 | -1.10 | 11.8 | 0.85 | 270 | 135 | 0.26 | 0.09 | 0.05 | 0.16 | | | | |
| 23-JAN-89 | 43.7 | 2.1 | 87.3 | 11.3 | 1.00 | 4.61 | -1.20 | 16.5 | 1.35 | 525 | 270 | 0.36 | 0.11 | 0.10 | 0.23 | | | | |
| 06-FEB-89 | 48.3 | 3.2 | 80.5 | 4.8 | 1.00 | 4.55 | -1.30 | 18.6 | 1.35 | 564 | 230 | 0.38 | 0.20 | 0.09 | 0.21 | | | | |
| 20-FEB-89 | 74.7 | 3.5 | 140.1 | 14.9 | 1.00 | 4.53 | -1.30 | 18.6 | 1.35 | 520 | 290 | 0.34 | 0.11 | 0.69 | 0.20 | | | | |
| 06-MAR-89 | 71.7 | 4.9 | 159.9 | 16.6 | 1.00 | 4.39 | -1.80 | 19.6 | 1.35 | 575 | 215 | 0.34 | 0.07 | 0.66 | 0.20 | | | | |
| 16-MAR-89 | 58.7 | 3.8 | 147.7 | 21.0 | 1.00 | 4.47 | -1.70 | 15.8 | 1.10 | 515 | 230 | 0.24 | 0.08 | 0.05 | 0.21 | | | | |
| 21-MAR-89 | 75.7 | 2.1 | 182.1 | 6.9 | 1.00 | 4.47 | -1.70 | 10.9 | 0.65 | 355 | 205 | 0.16 | 0.08 | 0.04 | 0.18 | | | | |
| 28-MAR-89 | 47.3 | 3.8 | 166.1 | 24.8 | 1.00 | 4.83 | -0.76 | 10.9 | 0.65 | 305 | 205 | 0.16 | 0.08 | 0.04 | 0.18 | | | | |
| 30-MAR-89 | 40.7 | 2.5 | 114.9 | 6.6 | 1.00 | 4.83 | -0.76 | 10.9 | 0.65 | 305 | 205 | 0.16 | 0.08 | 0.04 | 0.18 | | | | |
| 03-APR-89 | 38.3 | 1.2 | 132.4 | 53.4 | 1.00 | 5.73 | 0.21 | 9.9 | 0.45 | 282 | 215 | 0.20 | 0.06 | 0.00 | 0.26 | | | | |
| 06-APR-89 | 22.2 | 1.0 | 65.2 | 11.5 | 1.00 | 5.27 | -0.18 | 5.8 | 0.35 | 149 | 135 | 0.20 | 0.08 | 0.03 | 0.22 | | | | |
| 10-APR-89 | 41.7 | 1.5 | 131.7 | 6.4 | 1.00 | 5.27 | -0.18 | 5.8 | 0.35 | 149 | 135 | 0.20 | 0.08 | 0.03 | 0.22 | | | | |
| 13-APR-89 | 41.3 | 7.1 | 111.8 | 29.0 | 1.00 | 5.33 | 0.09 | 5.7 | 0.25 | 140 | 85 | 0.12 | 0.09 | 0.03 | 0.10 | | | | |
| 17-APR-89 | 21.7 | 4.6 | 62.1 | 10.8 | 1.00 | 5.33 | 0.09 | 5.7 | 0.25 | 140 | 85 | 0.12 | 0.09 | 0.03 | 0.10 | | | | |
| 21-APR-89 | 7.0 | 3.0 | 13.2 | 10.8 | 1.00 | 5.33 | 0.09 | 5.7 | 0.25 | 140 | 85 | 0.12 | 0.09 | 0.03 | 0.10 | | | | |
| 22-APR-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 05-DEC-89 | 23.2 | 3.2 | 40.7 | 7.4 | 1.00 | 4.79 | -0.59 | 12.6 | 0.80 | 450 | 80 | 0.41 | 0.14 | 0.27 | 0.23 | 0.40 | 1.50 | 0.02 | 0.02 |
| 9-DEC-89 | 26.8 | 1.9 | 41.5 | 3.5 | 1.00 | 4.53 | -1.00 | 16.9 | 0.95 | 491 | 180 | 0.29 | 0.07 | 0.20 | 0.10 | 0.23 | 0.80 | 0.02 | 0.01 |
| 9-DEC-89 | 37.5 | 2.6 | 49.9 | 1.3 | 1.00 | 4.48 | -1.30 | 17.4 | 0.95 | 620 | 159 | 0.31 | 0.08 | 0.27 | 0.15 | 0.28 | 0.80 | 0.03 | 0.02 |
| 8-DEC-89 | 44.7 | 3.8 | 66.7 | 3.5 | 1.00 | 4.57 | -1.00 | 17.7 | 0.90 | 599 | 58 | 0.53 | 0.15 | 0.26 | 0.13 | 0.26 | 2.10 | 0.02 | 0.03 |
| 2-JAN-90 | 21.9 | 2.9 | 65.9 | 11.3 | 1.00 | 4.46 | -1.40 | 20.6 | 1.30 | 637 | 154 | 0.34 | 0.09 | 0.16 | 0.10 | 0.32 | 1.20 | 0.02 | 0.01 |
| 9-JAN-90 | 43.3 | 3.1 | 68.8 | 18.3 | 1.00 | 4.50 | -1.80 | 25.3 | 1.60 | 690 | 187 | 0.37 | 0.10 | 0.51 | 0.24 | 0.46 | 1.20 | 0.03 | 0.01 |
| 16-JAN-90 | 57.0 | 2.6 | 102.6 | 2.6 | 1.00 | 4.52 | -1.90 | 20.6 | 1.60 | 630 | 229 | 0.35 | 0.11 | 0.58 | 0.15 | 0.28 | 1.30 | 0.02 | 0.02 |
| 23-JAN-90 | 62.0 | 2.6 | 81.2 | 6.0 | 1.00 | 4.62 | -0.97 | 17.5 | 1.20 | 590 | 249 | 0.21 | 0.07 | 0.43 | 0.14 | 0.26 | 1.00 | 0.03 | 0.01 |
| 30-JAN-90 | 58.0 | 4.3 | 127.3 | 26.2 | 1.00 | 4.55 | -1.50 | 17.7 | 1.00 | 554 | 230 | 0.18 | 0.04 | 0.17 | 0.08 | 0.20 | 0.60 | 0.03 | 0.01 |
| 06-FEB-90 | 54.0 | 3.0 | 148.5 | 3.5 | 1.00 | 4.58 | -1.40 | 17.8 | 0.95 | 596 | 234 | 0.24 | 0.05 | 0.24 | 0.11 | 0.22 | 0.70 | 0.03 | 0.01 |
| 13-FEB-90 | 49.7 | 2.1 | 143.1 | 8.3 | 1.00 | 4.67 | -1.30 | 16.6 | 1.10 | 585 | 204 | 0.35 | 0.08 | 0.44 | 0.09 | 0.21 | 0.70 | 0.05 | 0.01 |
| 20-FEB-90 | 49.7 | 1.5 | 143.1 | 2.3 | 1.00 | 4.64 | -1.40 | 15.7 | 0.95 | 584 | 232 | 0.30 | 0.05 | 0.13 | 0.07 | 0.18 | 0.70 | 0.07 | 0.02 |
| 27-FEB-90 | 62.3 | 0.5 | 174.7 | 11.1 | 1.00 | 4.70 | -1.20 | 14.4 | 0.85 | 540 | 259 | 0.22 | 0.07 | 0.24 | 0.12 | 0.20 | 0.50 | 0.02 | 0.01 |
| 06-MAR-90 | 60.2 | 2.5 | 173.7 | 5.8 | 1.00 | 4.50 | -1.70 | 19.4 | 1.10 | 650 | 250 | 0.27 | 0.06 | 0.22 | 0.10 | 0.21 | 0.90 | 0.03 | 0.01 |
| 12-MAR-90 | 52.0 | 3.0 | 147.7 | 10.5 | 1.00 | 4.66 | -0.97 | 9.5 | 0.45 | 394 | 219 | 0.12 | 0.02 | 0.13 | 0.07 | 0.18 | 0.60 | 0.03 | 0.01 |
| 13-MAR-90 | 32.7 | 1.5 | 100.3 | 24.7 | 1.00 | 4.86 | -0.78 | 8.2 | 0.35 | 331 | 198 | 0.10 | 0.03 | 0.10 | 0.08 | 0.18 | 0.60 | 0.06 | 0.01 |
| 20-MAR-90 | 24.3 | 2.6 | 65.2 | 10.0 | 25.9 | 4.97 | -0.38 | 8.2 | 0.35 | 331 | 198 | 0.10 | 0.03 | 0.10 | 0.08 | 0.18 | 0.60 | 0.06 | 0.01 |
| 27-MAR-90 | 15.3 | 2.5 | 40.0 | 7.9 | 25 | 4.97 | -0.38 | 8.2 | 0.35 | 331 | 198 | 0.10 | 0.03 | 0.10 | 0.08 | 0.18 | 0.60 | 0.06 | 0.01 |
| 03-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12-DEC-90 | 10.0 | 0.5 | 18.6 | 1.3 | 1.00 | 4.52 | -1.40 | 19.5 | 1.00 | 547 | 145 | 0.27 | 0.05 | 0.07 | 0.48 | 0.75 | 0.80 | 0.03 | 0.01 |
| 19-DEC-90 | 14.3 | 0.5 | 26.2 | 4.0 | 1.00 | 4.65 | -1.00 | 15.6 | 1.20 | 481 | 121 | 0.39 | 0.11 | 0.14 | 0.13 | 0.24 | 0.90 | 0.04 | 0.02 |

Table 11

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE MEAN (mm) | S.D. | % | COVER | CHEMICAL PARAMETERS | | | | | | | | | | |
|-------------|-----------------|-----------------------------|-------|------|-------|---------------------|------------|---------------|------------|----------------|-----------|-----------|------------|-----------|-----------|-----------|
| | | | | | | PII | ALK (mg/L) | COND25 (mg/L) | SO4 (mg/L) | Nitrate (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) | Al (mg/L) |
| 04-JAN-91 | 33.7 | 3.5 | 55.2 | 2.6 | 100 | 4.37 | -2.10 | 13.2 | 0.50 | 322 | 95 | 0.15 | 0.30 | 0.80 | 0.03 | 0.01 |
| 09-JAN-91 | 36.0 | 3.5 | 78.2 | 9.3 | 100 | 4.61 | -1.00 | 12.7 | 0.55 | 362 | 71 | 0.21 | 0.44 | 0.90 | 0.04 | 0.01 |
| 17-JAN-91 | 41.3 | 3.1 | 85.0 | 7.4 | 100 | 4.59 | -1.10 | 14.8 | 0.55 | 415 | 95 | 0.16 | 0.44 | 0.60 | 0.06 | 0.02 |
| 23-JAN-91 | 46.8 | 1.8 | 86.6 | 11.3 | 100 | 4.48 | -1.60 | 17.5 | 1.35 | 462 | 116 | 0.27 | 0.44 | 0.69 | 0.04 | 0.02 |
| 30-JAN-91 | 63.5 | 1.8 | 123.3 | 3.5 | 100 | 4.39 | -1.00 | 19.2 | 1.05 | 587 | 134 | 0.20 | 0.44 | 0.70 | 0.03 | 0.01 |
| 05-FEB-91 | 47.0 | 1.0 | 102.2 | 4.0 | 100 | 4.55 | -1.40 | 16.1 | 0.90 | 468 | 133 | 0.15 | 0.25 | 0.50 | 0.06 | 0.01 |
| 08-FEB-91 | 39.0 | 1.3 | 106.4 | 4.6 | 100 | 4.58 | -1.20 | 13.1 | 0.95 | 374 | 103 | 0.17 | 0.30 | 0.10 | 0.19 | 0.02 |
| 13-FEB-91 | 47.7 | 5.1 | 131.7 | 23.8 | 100 | 4.58 | -1.20 | 13.1 | 0.95 | 374 | 103 | 0.17 | 0.30 | 0.10 | 0.19 | 0.01 |
| 20-FEB-91 | 54.7 | 0.6 | 142.4 | 5.3 | 100 | 4.53 | -1.50 | 14.8 | 0.85 | 405 | 117 | 0.13 | 0.33 | 0.40 | 0.03 | 0.01 |
| 27-FEB-91 | 52.8 | 2.3 | 100 | 4.46 | 100 | 4.60 | -1.60 | 15.5 | 0.75 | 453 | 165 | 0.14 | 0.33 | 0.40 | 0.03 | 0.00 |
| 04-MAR-91 | 41.7 | 7.9 | 145.4 | 20.4 | 100 | 4.68 | -0.99 | 11.5 | 0.30 | 380 | 169 | 0.13 | 0.10 | 0.22 | 0.37 | 0.00 |
| 08-MAR-91 | 44.3 | 2.9 | 134.7 | 8.1 | 100 | 4.71 | -1.00 | 8.7 | 0.35 | 280 | 103 | 0.03 | 0.03 | 0.06 | 0.13 | 0.00 |
| 13-MAR-91 | 44.3 | 2.3 | 147.7 | 10.0 | 100 | 4.65 | -1.10 | 11.9 | 0.35 | 385 | 120 | 0.13 | 0.03 | 0.07 | 0.14 | 0.00 |
| 19-MAR-91 | 34.0 | 0.9 | 124.0 | 4.8 | 100 | 4.86 | -0.76 | 6.6 | 0.25 | 213 | 98 | 0.04 | 0.06 | 0.12 | 0.49 | 0.00 |
| 21-MAR-91 | 33.3 | 2.3 | 114.9 | 3.5 | 100 | 4.96 | -0.52 | 5.6 | 0.60 | 180 | 117 | 0.13 | 0.13 | 0.30 | 0.30 | 0.00 |
| 25-MAR-91 | 29.0 | 6.1 | 108.0 | 17.2 | 100 | 4.96 | -0.52 | 5.6 | 0.60 | 180 | 106 | 0.13 | 0.13 | 0.30 | 0.30 | 0.00 |
| 28-MAR-91 | 19.5 | 2.8 | 62.1 | 5.3 | 100 | 5.26 | -0.47 | 2.8 | 0.15 | 105 | 70 | 0.06 | 0.01 | 0.04 | 0.06 | 0.12 |
| 02-APR-91 | 22.5 | 1.8 | 74.3 | 6.9 | 90 | 5.08 | -0.45 | 5.1 | 0.20 | 138 | 91 | 0.06 | 0.02 | 0.04 | 0.07 | 0.14 |
| 03-APR-91 | 6.0 | 3.3 | 36.9 | 35.6 | 50 | 0.0 | 0.0 | 0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 08-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19-DEC-91 | 14.2 | 0.3 | 8.6 | 1.3 | 100 | 4.61 | -1.30 | 8.4 | 0.03 | 332 | 30 | 0.03 | 0.00 | 0.02 | 0.10 | 0.25 |
| 09-JAN-92 | 11.7 | 0.6 | 18.6 | 3.5 | 100 | 4.71 | -0.97 | 11.9 | 0.75 | 375 | 63 | 0.20 | 0.07 | 0.16 | 0.27 | 0.49 |
| 17-JAN-92 | 27.2 | 0.8 | 49.9 | 3.5 | 100 | 4.56 | -1.30 | 13.5 | 1.20 | 337 | 71 | 0.28 | 0.07 | 0.24 | 0.08 | 0.20 |
| 23-JAN-92 | 34.3 | 0.6 | 68.2 | 1.3 | 100 | 4.60 | -1.30 | 14.0 | 1.15 | 376 | 103 | 0.21 | 0.06 | 0.18 | 0.12 | 0.26 |
| 30-JAN-92 | 38.7 | 0.6 | 64.0 | 3.0 | 100 | 4.59 | -1.30 | 16.2 | 1.80 | 470 | 120 | 0.44 | 0.13 | 0.32 | 0.29 | 0.00 |
| 06-FEB-92 | 38.2 | 0.3 | 67.5 | 4.6 | 100 | 4.63 | -1.20 | 14.5 | 1.20 | 503 | 177 | 0.29 | 0.09 | 0.24 | 0.10 | 0.02 |
| 13-FEB-92 | 44.2 | 0.8 | 88.9 | 3.5 | 100 | 4.44 | -2.60 | 20.9 | 1.60 | 659 | 232 | 0.31 | 0.07 | 0.23 | 0.14 | 0.00 |
| 20-FEB-92 | 46.3 | 1.5 | 101.9 | 2.3 | 100 | 4.66 | -1.10 | 21.5 | 2.00 | 532 | 204 | 0.36 | 0.10 | 0.37 | 0.12 | 0.02 |
| 27-FEB-92 | 61.5 | 1.7 | 130.1 | 9.3 | 100 | 4.39 | -2.00 | 20.2 | 1.30 | 566 | 214 | 0.16 | 0.04 | 0.07 | 0.11 | 0.25 |
| 04-MAR-92 | 67.7 | 1.4 | 146.2 | 1.3 | 100 | 4.38 | -2.00 | 19.1 | 1.40 | 560 | 220 | 0.16 | 0.03 | 0.06 | 0.11 | 0.24 |
| 13-MAR-92 | 59.7 | 1.5 | 143.9 | 1.3 | 100 | 4.62 | -1.10 | 12.8 | 0.95 | 340 | 140 | 0.11 | 0.02 | 0.06 | 0.07 | 0.05 |
| 19-MAR-92 | 53.0 | 4.8 | 155.4 | 2.6 | 100 | 4.63 | -1.10 | 9.8 | 0.93 | 301 | 152 | 0.12 | 0.02 | 0.07 | 0.14 | 0.01 |
| 23-MAR-92 | 33.8 | 2.8 | 184.4 | 10.5 | 100 | 4.64 | -1.20 | 11.3 | 0.85 | 359 | 168 | 0.11 | 0.02 | 0.06 | 0.16 | 0.00 |
| 01-APR-92 | 44.0 | 1.0 | 171.4 | 3.5 | 100 | 4.70 | -0.95 | 10.2 | 0.75 | 304 | 153 | 0.13 | 0.03 | 0.10 | 0.23 | 0.01 |
| 08-APR-92 | 33.8 | 2.3 | 123.3 | 100 | 5.23 | 0.5 | 0.55 | 21.4 | 1.45 | 28 | 145 | 0.28 | 0.03 | 0.15 | 0.09 | 0.01 |
| 15-APR-92 | 32.5 | 1.7 | 116.4 | 9.5 | 100 | 5.09 | -0.39 | 5.0 | 0.30 | 199 | 141 | 0.00 | 0.01 | 0.05 | 0.03 | 0.00 |
| 21-APR-92 | 8.3 | 2.9 | 28.5 | 9.2 | 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.14 | 0.20 | 0.06 |
| 24-APR-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 |

Table 11 (cont'd)

HARP LAKE SNOW CORE DATA SUMMARY
HPSZ07

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE (mm) | % COVER | CHEMICAL PARAMETERS | | | | | | | | | | | | | | | | |
|-------------|-----------------|------------------------|---------|---------------------|-------------|-------|-------|------------|-------------------------|------------|----------------|-----------------|-----------|-----------|----------|-----------|-----------|------------|-----------|-----------|
| | | | | MEAN S.D. | MEAN (mg/L) | S.D. | PH | ALK (mg/L) | COND25 / (µS/cm) (mg/L) | SO4 (µg/L) | NITRATE (µg/L) | AMMONIUM (µg/L) | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) | Fe (mg/L) | Mn (mg/L) |
| 21-JAN-88 | 42.7 | 3.2 | 97.3 | 6.1 | 100 | 4.50 | <1.70 | 16.8 | 1.20 | 465 | 150 | 0.32 | 0.10 | 0.06 | 0.36 | | | | | |
| 09-FEB-88 | 48.3 | 4.5 | 108.0 | 16.9 | 100 | 4.76 | <1.03 | 12.4 | 0.85 | 417 | 165 | 0.22 | 0.08 | 0.05 | 0.21 | | | | | |
| 23-MAR-88 | 83.7 | 4.0 | 185.2 | 8.7 | 100 | 4.36 | <1.60 | 17.2 | 0.50 | 560 | 240 | 0.13 | 0.13 | 0.03 | 0.17 | | | | | |
| 08-MAR-88 | 32.7 | 1.9 | 219.5 | 5.3 | 100 | 4.80 | <0.79 | 15.0 | 1.15 | 645 | 230 | 0.64 | 0.12 | 0.08 | 0.21 | | | | | |
| 15-MAR-88 | 33.7 | 1.1 | 216.5 | 15.9 | 100 | 4.76 | <1.50 | 15.3 | 1.30 | 535 | 195 | 0.38 | 0.15 | 0.10 | 0.20 | | | | | |
| 29-MAR-88 | 24.0 | 0.9 | 211.1 | 25.8 | 100 | 4.75 | <1.00 | 11.8 | 0.65 | 375 | 185 | 0.16 | 0.07 | 0.03 | 0.16 | | | | | |
| 31-MAR-88 | 22.9 | 1.8 | 205.0 | 41.3 | 100 | 5.10 | <0.50 | 5.8 | 0.30 | 160 | 150 | 0.10 | 0.04 | 0.01 | 0.12 | | | | | |
| 06-APR-88 | 9.9 | 3.4 | 83.5 | 25.2 | 100 | 4.77 | <0.78 | 28.8 | 100 | 11.5 | 140 | 0.40 | 0.04 | 0.01 | 0.09 | | | | | |
| 08-APR-88 | 6.1 | 3.1 | 40.7 | 32.8 | 100 | 5.15 | <0.50 | 23.3 | 100 | 11.5 | 135 | 0.40 | 0.04 | 0.01 | 0.09 | | | | | |
| 12-APR-88 | 4.1 | 0.6 | 30.8 | 14.0 | 100 | 5.15 | <0.47 | 4.9 | 0.20 | 140 | 135 | 0.40 | 0.04 | 0.01 | 0.09 | | | | | |
| 14-APR-88 | 2.9 | 0.8 | 14.0 | 5.8 | 33 | 33 | <0.47 | 1.0 | 0.10 | 130 | 0.18 | <0.10 | <0.03 | <0.12 | <0.12 | | | | | |
| 19-APR-88 | 2.9 | 1.6 | 51.4 | 15.0 | 10 | 5.28 | <0.06 | 4.9 | 0.40 | 150 | 0.18 | <0.10 | <0.03 | <0.12 | <0.12 | | | | | |
| 21-APR-88 | 8.4 | 0.8 | 47.6 | 10.8 | 10 | 0.0 | <0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.0 | <0.0 | <0.0 | <0.0 | | | | | |
| 22-APR-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | <0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.0 | <0.0 | <0.0 | <0.0 | | | | | |
| 09-JAN-89 | 35.7 | 1.2 | 46.4 | 4.8 | 100 | 4.81 | <0.86 | 11.4 | 0.84 | 335 | 160 | 0.24 | 0.12 | 0.04 | 0.23 | | | | | |
| 23-JAN-89 | 52.3 | 2.5 | 111.8 | 1.3 | 100 | 4.47 | <1.60 | 25.4 | 1.35 | 770 | 280 | 0.28 | 0.06 | 0.05 | 0.34 | | | | | |
| 06-FEB-89 | 63.0 | 3.0 | 117.9 | 22.1 | 100 | 4.37 | <1.30 | 16.0 | 1.65 | 525 | 200 | 0.42 | 0.30 | 0.10 | 0.47 | | | | | |
| 08-FEB-89 | 88.0 | 5.0 | 159.2 | 32.3 | 100 | 4.48 | <1.70 | 17.1 | 1.35 | 590 | 245 | 0.26 | 0.08 | 0.08 | 0.21 | | | | | |
| 06-MAR-89 | 67.0 | 10.6 | 198.9 | 89.2 | 100 | 4.51 | <1.60 | 18.3 | 1.50 | 550 | 215 | 0.38 | 0.27 | 0.07 | 0.23 | | | | | |
| 16-MAR-89 | 17.5 | 1.5 | 177.5 | 13.9 | 100 | 4.49 | <1.60 | 16.5 | 1.35 | 535 | 220 | 0.28 | 0.12 | 0.05 | 0.21 | | | | | |
| 21-MAR-89 | 86.7 | 6.1 | 192.8 | 11.8 | 100 | 4.85 | <0.72 | 12.4 | 0.84 | 475 | 180 | 0.38 | 0.22 | 0.07 | 0.19 | | | | | |
| 28-MAR-89 | 63.3 | 1.5 | 189.0 | 24.3 | 100 | 4.86 | <0.72 | 10.0 | 0.65 | 187 | 195 | 0.16 | 0.08 | 0.00 | 0.13 | | | | | |
| 30-MAR-89 | 45.0 | 4.0 | 153.1 | 6.6 | 100 | 4.94 | <0.61 | 9.8 | 0.65 | 297 | 195 | 0.16 | 0.08 | 0.00 | 0.13 | | | | | |
| 03-APR-89 | 61.3 | 2.1 | 187.5 | 10.3 | 100 | 4.94 | <0.61 | 10.3 | 0.65 | 297 | 195 | 0.16 | 0.08 | 0.00 | 0.13 | | | | | |
| 08-APR-89 | 54.2 | 6.6 | 153.8 | 16.9 | 100 | 4.98 | <0.57 | 7.9 | 0.45 | 238 | 175 | 0.16 | 0.07 | 0.03 | 0.11 | | | | | |
| 10-APR-89 | 6.0 | 197.4 | 34.0 | 100 | 4.98 | <0.57 | 7.9 | 0.45 | 238 | 175 | 0.16 | 0.07 | 0.03 | 0.11 | | | | | | |
| 13-APR-89 | 54.3 | 3.9 | 162.2 | 23.2 | 100 | 4.93 | <0.61 | 9.0 | 0.50 | 280 | 180 | 0.14 | 0.03 | 0.02 | 0.13 | | | | | |
| 17-APR-89 | 57.5 | 17.0 | 159.2 | 37.9 | 100 | 4.93 | <0.61 | 9.0 | 0.50 | 280 | 180 | 0.14 | 0.03 | 0.02 | 0.13 | | | | | |
| 21-APR-89 | 43.3 | 4.0 | 154.6 | 4.6 | 100 | 4.94 | <0.53 | 6.0 | 0.25 | 200 | 170 | 0.10 | 0.09 | 0.02 | 0.13 | | | | | |
| 24-APR-89 | 31.7 | 3.2 | 102.6 | 13.0 | 100 | 4.94 | <0.53 | 6.1 | 0.25 | 200 | 170 | 0.10 | 0.09 | 0.02 | 0.13 | | | | | |
| 27-APR-89 | 12.0 | 0.9 | 44.6 | 6.1 | 100 | 4.94 | <0.50 | 2.3 | 0.20 | 20.3 | 9.0 | 0.06 | 0.06 | 0.04 | 0.13 | 0.29 | 0.70 | 0.03 | 0.24 | |
| 01-MAY-89 | 14.0 | 1.0 | 40.0 | 0.0 | 0 | 0.0 | <0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 02-MAY-89 | 0.0 | 0.0 | 9.5 | 100 | 4.59 | <1.00 | 13.6 | 0.75 | 485 | 118 | 0.24 | 0.05 | 0.19 | 0.05 | 0.17 | 0.70 | 0.04 | 0.01 | 41 | |
| 03-DEC-89 | 31.5 | 2.5 | 41.5 | 43.8 | 2.6 | 100 | 4.43 | <1.40 | 17.7 | 0.90 | 495 | 180 | 0.25 | 0.04 | 0.18 | 0.09 | 0.22 | 0.60 | 0.03 | 0.01 |
| 12-DEC-89 | 32.3 | 1.0 | 46.8 | 4.6 | 100 | 4.45 | <1.40 | 17.3 | 0.90 | 650 | 172 | 0.31 | 0.06 | 0.18 | 0.10 | 0.22 | 0.40 | 0.10 | 0.02 | |
| 19-DEC-89 | 42.3 | 2.1 | 65.2 | 7.9 | 100 | 4.45 | <1.50 | 19.3 | 0.75 | 641 | 107 | 0.31 | 0.07 | 0.32 | 0.14 | 0.29 | 1.50 | 0.03 | 0.02 | |
| 28-DEC-89 | 55.3 | 5.5 | 47.3 | 11.5 | 100 | 4.42 | <1.60 | 20.1 | 0.93 | 637 | 147 | 0.33 | 0.06 | 0.20 | 0.14 | 0.28 | 0.90 | 0.04 | 0.02 | |
| 02-JAN-90 | 50.2 | 4.5 | 97.3 | 4.0 | 100 | 4.43 | <2.40 | 20.3 | 0.90 | 600 | 196 | 0.22 | 0.04 | 0.17 | 0.13 | 0.29 | 0.70 | 0.03 | 0.01 | |
| 16-JAN-90 | 64.7 | 1.5 | 121.0 | 5.3 | 100 | 4.45 | <2.20 | 21.2 | 1.00 | 650 | 249 | 0.22 | 0.04 | 0.12 | 0.18 | 0.70 | 0.02 | 0.00 | 24 | |
| 23-JAN-90 | 68.0 | 2.6 | 90.4 | 0.0 | 100 | 4.53 | <1.20 | 18.0 | 0.90 | 590 | 216 | 0.19 | 0.05 | 0.14 | 0.11 | 0.30 | 0.60 | 0.05 | 0.01 | |
| 30-JAN-90 | 59.7 | 4.4 | 141.6 | 12.6 | 100 | 4.54 | <1.60 | 17.4 | 0.85 | 560 | 225 | 0.17 | 0.03 | 0.14 | 0.09 | 0.19 | 0.50 | 0.03 | 0.01 | |
| 06-FEB-90 | 59.8 | 2.6 | 160.7 | 16.6 | 100 | 4.52 | <1.70 | 18.7 | 0.95 | 586 | 249 | 0.19 | 0.04 | 0.26 | 0.13 | 0.24 | 0.70 | 0.03 | 0.01 | |
| 13-FEB-90 | 59.0 | 3.6 | 153.1 | 5.3 | 100 | 4.52 | <1.90 | 19.2 | 1.00 | 615 | 247 | 0.20 | 0.04 | 0.17 | 0.11 | 0.24 | 0.70 | 0.04 | 0.01 | |
| 20-FEB-90 | 63.1 | 4.6 | 208.8 | 19.5 | 100 | 4.35 | <1.60 | 17.3 | 0.93 | 565 | 240 | 0.24 | 0.04 | 0.13 | 0.07 | 0.15 | 0.60 | 0.03 | 0.01 | |
| 27-FEB-90 | 78.2 | 3.7 | 187.5 | 19.5 | 100 | 4.50 | <1.80 | 18.0 | 0.90 | 602 | 241 | 0.23 | 0.04 | 0.18 | 0.09 | 0.16 | 0.50 | 0.04 | 0.01 | |
| 06-MAR-90 | 74.3 | 0.5 | 217.3 | 13.8 | 100 | 4.48 | <1.90 | 18.0 | 1.10 | 617 | 269 | 0.25 | 0.05 | 0.17 | 0.09 | 0.19 | 0.60 | 0.04 | 0.01 | |
| 12-MAR-90 | 60.3 | 1.5 | 205.8 | 4.8 | 100 | 0.0 | <0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <0.0 | <0.0 | <0.0 | <0.0 | <0.0 | <0.0 | <0.0 | 31 | |

Table 12

| SAMPLE DATE | SNOW DEPTH (cm) | WATER EQUIVALENCE S.D. (mm) | COVER % | PH | ALK (mg/L) | COND ₂₅ (mg/L) | SO ₄ (manganite) (mg/L) | NITRATE (µg/L) | AMMONIA (µg/L) | CHEMICAL PARAMETERS | | | | | |
|-------------|-----------------|-----------------------------|---------|------|------------|---------------------------|------------------------------------|----------------|----------------|---------------------|-----------|----------|-----------|-----------|------------|
| | | | | | | | | | | Ca (mg/L) | Mg (mg/L) | K (mg/L) | Na (mg/L) | Cl (mg/L) | DOC (mg/L) |
| 15-MAR-90 | 42.7 | 1.5 | 145.4 | 4.0 | 100 | 4.79 | 0.89 | 9.8 | 0.40 | 372 | 182 | 0.09 | 0.02 | 0.08 | 0.14 |
| 20-MAR-90 | 34.0 | 2.6 | 98.0 | 13.4 | 100 | 4.89 | 0.78 | 8.0 | 0.35 | 312 | 164 | 0.07 | 0.02 | 0.06 | 0.15 |
| 27-MAR-90 | 29.0 | 1.7 | 75.9 | 9.3 | 73 | 4.98 | -0.34 | 7.3 | 0.30 | 276 | 181 | 0.10 | 0.02 | 0.11 | 0.12 |
| 03-APR-90 | 20.8 | 4.1 | 64.4 | 15.3 | 73 | 10.0 | -0.54 | | | | | | | | |
| 12-APR-90 | 18-APR-90 | 26.8 | 2.8 | 66.7 | 8.1 | 75 | | | | | | | | | |
| 19-APR-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12-DEC-90 | 17.7 | 0.0 | 2.3 | 100 | 4.63 | -1.10 | 19.1 | 0.80 | 410 | 111 | 0.24 | 0.04 | 0.09 | 1.67 | |
| 19-DEC-90 | 21.2 | 1.0 | 33.8 | 1.3 | 100 | 4.57 | -1.20 | 14.6 | 0.55 | 356 | 95 | 0.20 | 0.03 | 0.10 | 0.50 |
| 04-JAN-91 | 46.3 | 2.3 | 59.1 | 3.5 | 100 | 4.49 | -1.60 | 17.2 | 0.55 | 358 | 81 | 0.27 | 0.09 | 0.11 | 0.36 |
| 09-JAN-91 | 46.0 | 2.6 | 83.3 | 10.0 | 100 | 4.83 | -0.48 | 15.8 | 0.75 | 367 | 88 | 0.48 | 0.09 | 0.20 | 1.36 |
| 17-JAN-91 | 48.7 | 2.1 | 103.4 | 3.5 | 100 | 4.60 | -1.10 | 12.1 | 0.65 | 416 | 105 | 0.23 | 0.06 | 0.08 | 0.15 |
| 23-JAN-91 | 50.5 | 1.7 | 98.8 | 3.5 | 100 | 4.41 | -1.90 | 17.6 | 0.95 | 475 | 122 | 0.13 | 0.03 | 0.09 | 0.18 |
| 30-JAN-91 | 75.3 | 2.0 | 137.0 | 8.1 | 100 | 4.33 | -2.00 | 19.4 | 0.85 | 365 | 132 | 0.15 | 0.03 | 0.05 | 0.24 |
| 05-FEB-91 | 62.8 | 3.7 | 144.7 | 1.3 | 100 | 4.51 | -1.50 | 15.7 | 0.85 | 484 | 127 | 0.19 | 0.05 | 0.31 | 0.40 |
| 08-FEB-91 | 49.7 | 1.9 | 127.1 | 6.9 | 100 | 4.47 | -1.00 | 12.3 | 0.85 | 453 | 92 | 0.28 | 0.11 | 0.15 | 0.18 |
| 13-FEB-91 | 55.3 | 1.3 | 141.7 | 21.8 | 100 | 4.63 | -1.00 | 12.3 | 0.85 | 453 | 92 | 0.28 | 0.11 | 0.09 | 0.07 |
| 20-FEB-91 | 63.7 | 1.5 | 153.8 | 3.5 | 100 | 4.49 | -1.60 | 14.7 | 0.75 | 475 | 112 | 0.16 | 0.04 | 0.16 | 0.50 |
| 27-FEB-91 | 63.7 | 2.3 | 161.5 | 6.1 | 100 | 4.44 | -1.60 | 15.8 | 0.70 | 476 | 131 | 0.12 | 0.02 | 0.07 | 0.14 |
| 04-MAR-91 | 53.0 | 3.5 | 166.1 | 17.3 | 100 | 4.67 | -1.10 | 10.7 | 0.45 | 367 | 107 | 0.15 | 0.05 | 0.13 | 0.10 |
| 08-MAR-91 | 53.0 | 2.6 | 145.4 | 2.3 | 100 | 4.59 | -1.30 | 11.6 | 0.45 | 360 | 105 | 0.07 | 0.02 | 0.05 | 0.07 |
| 13-MAR-91 | 49.5 | 1.8 | 163.8 | 7.9 | 100 | 4.81 | -1.00 | 9.6 | 0.55 | 370 | 94 | 0.17 | 0.03 | 0.42 | 0.48 |
| 19-MAR-91 | 47.8 | 2.3 | 163.8 | 6.1 | 100 | 4.70 | -1.00 | 9.8 | 0.50 | 314 | 93 | 0.14 | 0.04 | 0.08 | 0.17 |
| 21-MAR-91 | 50.7 | 5.0 | 156.1 | 20.8 | 100 | 4.49 | -2.00 | 17.5 | 0.70 | 557 | 221 | 0.13 | 0.03 | 0.08 | 0.40 |
| 25-MAR-91 | 48.0 | 1.3 | 168.3 | 2.3 | 100 | 4.77 | -0.84 | 7.9 | 0.00 | 274 | 117 | 0.07 | 0.04 | 0.13 | 0.14 |
| 28-MAR-91 | 42.7 | 0.8 | 154.5 | 7.0 | 100 | 4.98 | -0.73 | 5.3 | 0.30 | 188 | 93 | 0.07 | 0.04 | 0.10 | 0.10 |
| 02-APR-91 | 42.3 | 1.5 | 144.7 | 11.8 | 100 | 4.95 | -0.54 | 7.1 | 0.30 | 218 | 129 | 0.08 | 0.02 | 0.05 | 0.18 |
| 05-APR-91 | 38.0 | 2.0 | 141.6 | 7.0 | 100 | 4.50 | -1.00 | 17.8 | 1.15 | 554 | 221 | 0.13 | 0.03 | 0.08 | 0.40 |
| 08-APR-91 | 21.5 | 1.7 | 82.0 | 10.8 | 50 | | | | | | | | | | |
| 11-APR-91 | 11.8 | 1.8 | 29.3 | 4.8 | 10 | | | | | | | | | | |
| 15-APR-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | |
| 19-DEC-91 | 23.3 | 3.1 | 24.7 | 9.3 | 100 | 4.77 | -0.87 | 5.7 | 0.31 | 311 | 45 | 0.06 | 0.02 | 0.07 | 0.05 |
| 09-JAN-92 | 21.5 | 2.2 | 46.8 | 6.1 | 100 | 4.68 | -1.00 | 10.2 | 0.55 | 350 | 88 | 0.02 | 0.06 | 0.13 | 0.31 |
| 17-JAN-92 | 33.7 | 2.1 | 72.1 | 4.6 | 100 | 4.60 | -1.30 | 10.8 | 0.75 | 328 | 90 | 0.14 | 0.03 | 0.13 | 0.08 |
| 23-JAN-92 | 44.0 | 1.8 | 85.8 | 4.0 | 100 | 4.65 | -1.30 | 9.7 | 0.65 | 328 | 94 | 0.08 | 0.02 | 0.10 | 0.21 |
| 30-JAN-92 | 47.0 | 2.0 | 99.6 | 6.9 | 100 | 4.50 | -1.50 | 13.6 | 0.85 | 420 | 135 | 0.14 | 0.04 | 0.14 | 0.27 |
| 06-FEB-92 | 47.8 | 1.9 | 91.9 | 10.8 | 100 | 4.43 | -2.00 | 17.8 | 1.15 | 554 | 221 | 0.13 | 0.03 | 0.08 | 0.19 |
| 13-FEB-92 | 55.7 | 1.6 | 107.2 | 1.3 | 100 | 4.49 | -2.00 | 17.5 | 1.10 | 557 | 210 | 0.17 | 0.04 | 0.11 | 0.22 |
| 20-FEB-92 | 60.7 | 5.7 | 106.9 | 10.6 | 100 | 4.43 | -1.90 | 18.4 | 1.10 | 522 | 201 | 0.14 | 0.03 | 0.07 | 0.10 |
| 27-FEB-92 | 75.7 | 3.4 | 147.7 | 12.8 | 100 | 4.49 | -1.60 | 17.7 | 1.25 | 553 | 216 | 0.10 | 0.07 | 0.16 | 0.23 |
| 04-MAR-92 | 79.2 | 2.3 | 162.2 | 8.7 | 100 | 4.46 | -1.70 | 19.0 | 1.35 | 570 | 210 | 0.21 | 0.03 | 0.14 | 0.11 |
| 13-MAR-92 | 64.7 | 0.6 | 173.7 | 12.6 | 100 | 4.58 | -1.20 | 11.4 | 0.85 | 321 | 147 | 0.06 | 0.01 | 0.06 | 0.09 |
| 19-MAR-92 | 62.8 | 1.3 | 194.3 | 3.5 | 100 | 4.65 | -1.10 | 9.2 | 0.75 | 295 | 139 | 0.08 | 0.02 | 0.08 | 0.12 |
| 25-MAR-92 | 62.0 | 1.0 | 194.3 | 2.6 | 100 | 4.69 | -1.00 | 9.8 | 0.80 | 356 | 163 | 0.14 | 0.04 | 0.13 | 0.17 |
| 01-APR-92 | 51.8 | 1.3 | 186.7 | 2.3 | 100 | 4.59 | -2.00 | 13.6 | 0.90 | 376 | 192 | 0.13 | 0.03 | 0.19 | 0.20 |
| 08-APR-92 | 47.2 | 0.3 | 161.5 | 12.8 | 100 | 5.14 | -0.09 | 9.9 | 0.35 | 285 | 128 | 0.38 | 0.06 | 0.44 | 0.28 |
| 15-APR-92 | 48.7 | 0.3 | 183.6 | 9.3 | 100 | 4.68 | -1.10 | 10.2 | 0.65 | 291 | 136 | 0.06 | 0.02 | 0.07 | 0.12 |
| 21-APR-92 | 32.7 | 0.8 | 127.8 | 5.8 | 100 | 4.55 | -0.32 | 5.8 | 0.30 | 210 | 141 | 0.05 | 0.01 | 0.07 | 0.20 |
| 24-APR-92 | 16.7 | 5.0 | 46.1 | 17.5 | 60 | | | | | | | | | | |
| 28-APR-92 | 7.8 | 3.0 | 21.6 | 8.3 | 10 | | | | | | | | | | |
| 01-MAY-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | | | | | | | | | |

Table 12 (cont'd)

